

5th Schmidt Expedition to
New Guinea

1956

March 4. Left Idlewild Airport, New York at
9:10 AM. on TWA flight 35 (Constellation 6
plane). Bright ~~clear~~ clear morning after a rainy
night.

Arrived Chicago in 3 1/2 hours. Fair amount of
snow on ground (back from the coast) much ice on
Lake Erie.

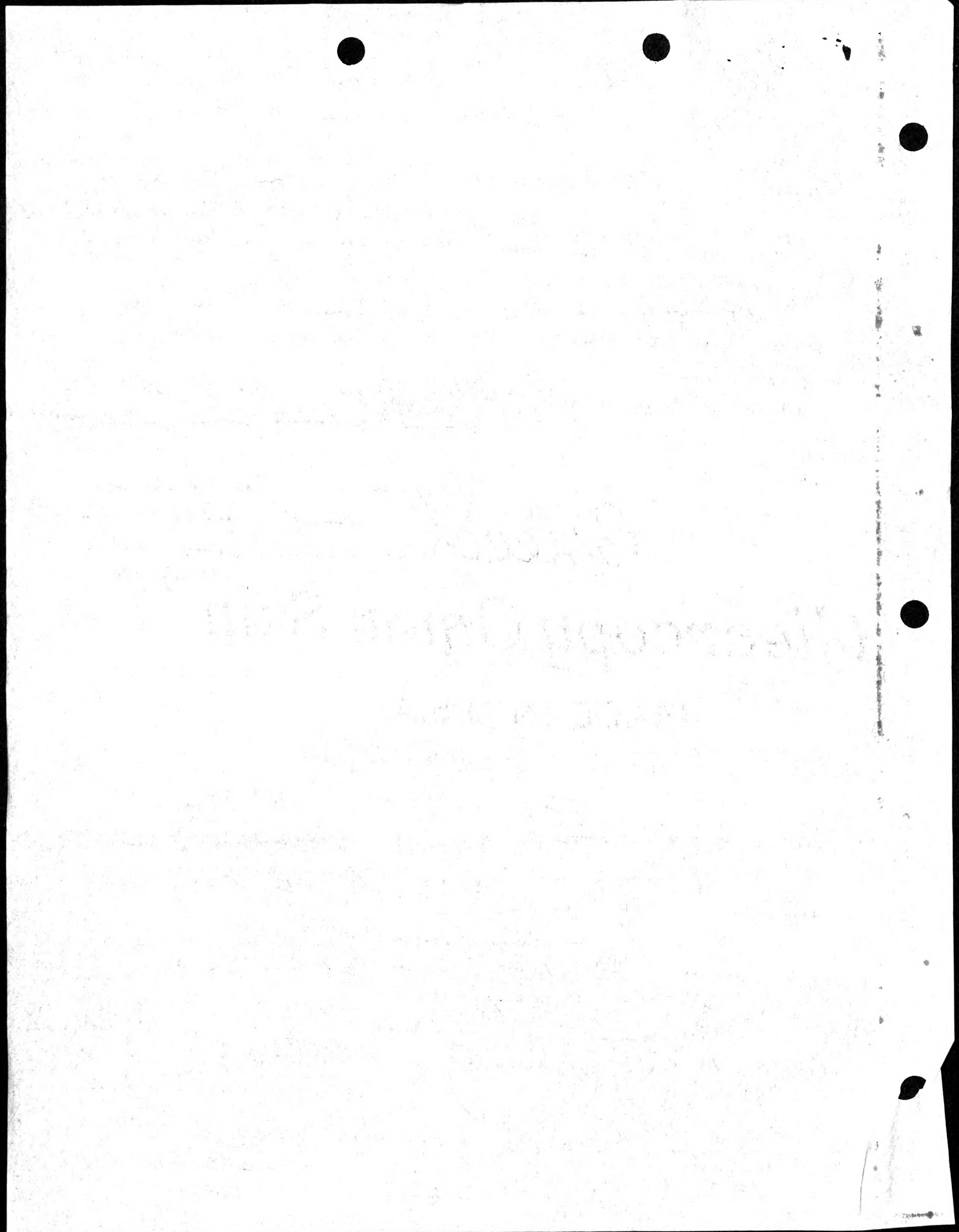
On 8 1/2 hour flight from Chicago to San
Francisco, against a very strong wind. Arrived
in S.F. after dark. Had limited views of the Bay
1/2 hr. in vicinity of The Embarcadero. The fumes
emanated from near Rinc, almost entirely clouded
over. Fair San Francisco temperature very mild
after the east coast. Most men walking the
streets without coats.
Went to the Francis Drake Hotel

Mar. 5. Left San Francisco 11:10 am on

Quantum flight 737 (Super Constellation
plane) (Southern Moon). Arrived Honolulu
8:05 Pacific Coast time, 6:01 Honolulu
time. Smooth trip.

Of 51 passengers from S.F. only four,
plus crew, in 1st, from Honolulu, one
going on to Sydney.

"Hammal" passengers had a good dinner
at the Hotel Edgewater (on Edgewater). Took
off at 10:10 pm. Had trouble with the about
half meter a few minutes after take-off
8 feet back from good landing, at 10:10



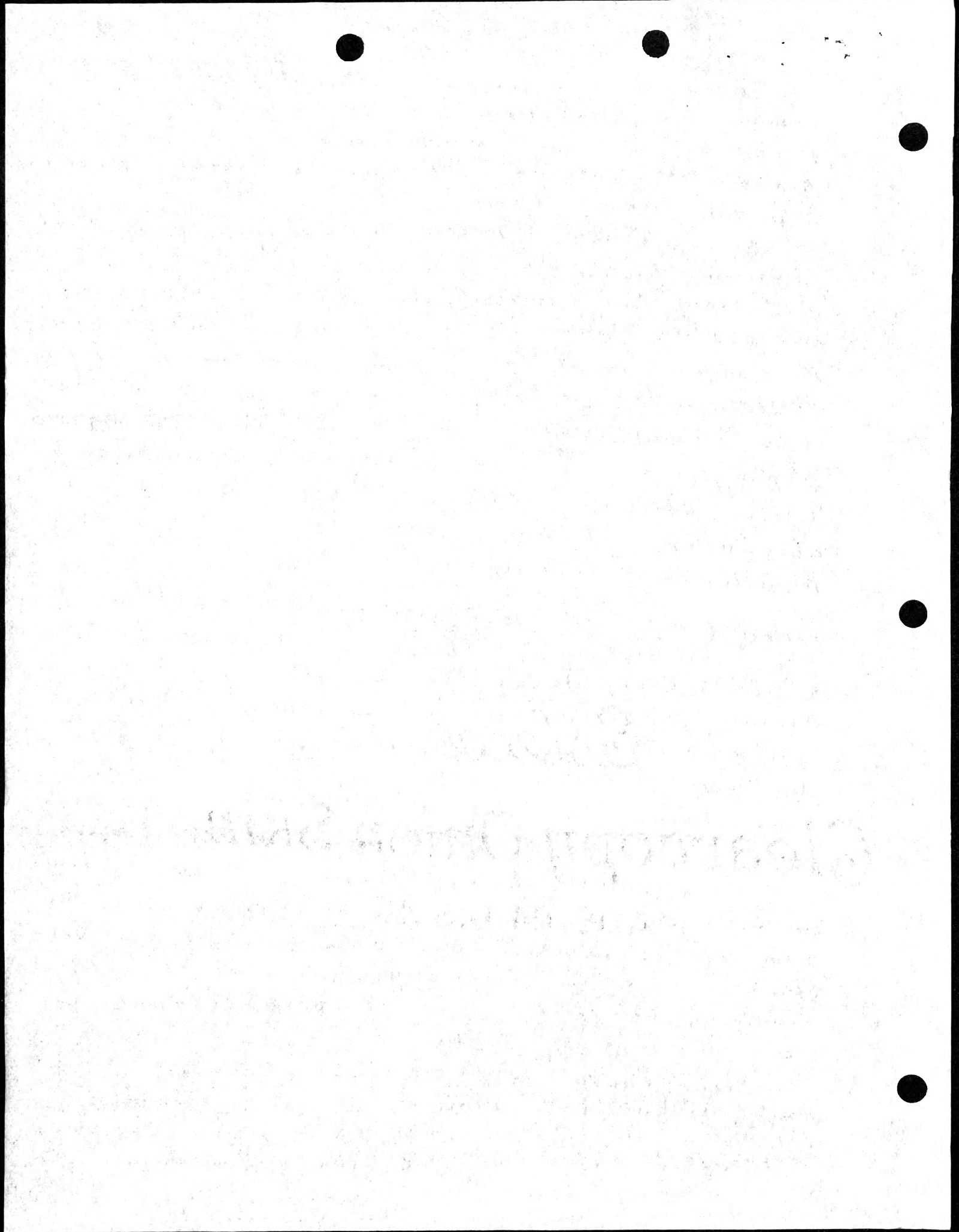
Coming in for a landing at Honolulu, we flew through swirling dark rain clouds over the top of the island. A wild sight. Very narrow razorbacks. Very narrow deep valleys. All green and rain-drenched in the late afternoon light.

Dr. J. Linley Gressitt, entomologist of the Bishop Museum, boarded plane at Honolulu. Going to Cairns, N. Queensland, and for a week, then on to New Guinea & the Solomons for 2 months. A specialist in beetles, Gressitt was in the Wilson Mission & Central Highlands areas last year. This year he will work mainly in the Bopandella area in Papua, & on New Britain, & Bougainville & Guadalcanal. George Shroeder will help him at Cairns. I have given him a letter of introduction to Gilbert Bates.

March 6-7 (Crossed international date line)
Arrived Canton Island, Phoenix Group, at 8:30 am. Distance 1912 miles. Met there Krauss, U.S.D.A. entomologist returning to Honolulu after a vacation collecting visit to Tonga & Fiji. Also Mrs. [unclear] a trained entomologist from Kansas, married to an FCC official on the island, & also U.S. post mistress of the island.

Canton is a low atoll, dry & desolate & much disturbed by bulldozers. Said to have been no rain for 15 months. Rain water cisterns are dry. Distilled sea water is only remaining supply. The sparse plantings of littoral shrubs & coconuts are slowly browning off & dying.

Left Canton 8:55 this time, after fuelling, & a short jeep ride with Mrs. S., Krauss & Gressitt. Arrived Nadi, Fiji, at 1:30 Canton time; 1273 miles. We left Honolulu with the idea of by-passing to



The south of Fiji to avoid a hurricane, but later³
had an all-clear from Vadi. The wind had not
risen above about 60 mph there, but 17 inches of
rain had fallen within 48 hours & the streams
were pouring great quantities of red water into
the sea. Whenever I saw it, this red water was
within the barrier ~~reef~~ reef which lies close to most
of the coast. Vadi very hot & humid. Flood
waters & perhaps wind had flattened a fair
amount of sugarcane.

Left Vadi 2 PM Fiji time & arrived Sydney
9:30 (7:30 then time); distance 1878 miles. Staying
at Wentworth Hotel. Old place modernized to the
extent of private bathrooms; apparently a Canton hotel.
Sydney has had much rain from the cyclonic
disturbance. Muggy & rather hot for Sydney.

Gen ship carried a crew of eleven including
two captains & two first officers, & we had only
12 passengers upon arrival in Sydney. We had
only five through passengers from San Francisco.

Trans-Pacific flight: 7581 miles, 27 hours
40 min. Canton runs a very good service. There is
not the spit & polish of Pan American, but so far as
I could see efficiency is on a very high level, &
arrangements for passengers very complete - down
to a buttonhole in the napkins.

Thursday Mar. 8. Left Sydney 9:30 AM by TAA
No. 3, stopped down at Newcastle, &
got to Brisbane 1:05. Flew over solid clouds much
of time. River high with big rain from the cyclonic
disturbance. Townsville, Cairns, & some places in
Gulf of Carpentaria have taken a bad beating.
Wind & flood have done much damage to the
sugarcane crop (harvest begins in two months).

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Was met at the air terminal in Town by Denis Williams, Bunting's Brisbane agent. Then, we both went to the Income Tax Office (for tax clearance for New Guinea), Migration Office (for alien registration), & Burns Philp & Co. for information on ships & planes to Tamarai. Mainly concerned with cutting formalities for Russ Peterson if he should have to make a quick get-away upon arrival.

Russ' ship, Pioneer Fern, is expected at present to arrive March 31, which is a Saturday. He can take plane that night for Port Moresby or on April 1st. & be in Tamarai by air April 3rd. Telling that, the next scheduled plane for ^{arrival in} Tamarai is April 17. No boat from Brisbane is expected before that time.

Every person leaving Australia for New Guinea (or anywhere else) needs an income tax clearance. As we have special visas from New York, we don't need the usual permits to leave Australia & to return to Australia from New Guinea. We can pass through Australia without registering as aliens, but we must register in Tamarai (our expected stay being over 60 days). There has been a conflict of opinion on the registration business, & this has taken up most time.

Friday 1 March 9: Confirmed my booking with Qantas through to Port Moresby.

Had to leave a valued pocket-knife last yesterday on the plane or in a taxi, got my income ~~tax~~ tax clearance, also a tax clearance for Russ. The officials concerned have made concessions & Russ is now documented for immediate departure for New Guinea when he arrives in Brisbane.

Dear Sir,
I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the matter of the
and in reply to inform you that the same has been forwarded to the proper authorities for their consideration.

I am, Sir, very respectfully,
Your obedient servant,
J. H. [Name]

I am, Sir, very respectfully,
Your obedient servant,
J. H. [Name]

I am, Sir, very respectfully,
Your obedient servant,
J. H. [Name]

I am, Sir, very respectfully,
Your obedient servant,
J. H. [Name]

5

Visited the Queensland Herbarium in what was left of the morning, & in the afternoon the Queensland Museum. The Herbarium - what I saw of it - still an untidy fire hazard of a great amount of ~~unaccessioned~~ material in brown paper bundles & Merrill cardboard boxes - a lot of it unaccessioned & undetermined. Tourist table had not been cleared off for months, by the look of it. He spoke of improvements since he became Govt. Botanist nearly two years ago, but the only obvious one was a repainting of the interior. Tourist & several junior assistants do the routine identifications in agrostology, weed control, etc., leaving Stanley Blake & Lindsay Smith free to spend most of their time on taxonomic work. Blake is finishing off a revision of Metaleuca & is working on Plectranthus, & a honey flora of SE Queensland. Smith is the rain forest Botanist. Tourist has proposed for official approval a handbook of the Queensland flora to be prepared by Blake & Smith in 15 years. One of three new women graduate assistants is working as Librarian & is cataloguing & rearranging the books & periodicals. Tourist feels his own impatience, but he is a live wire.

At the Museum the same old faultless order prevails under George Mack's directorship. His only scientific assistant is Woods, a young geologist & paleontologist (M.Sc.) who has been there three years. Oldham, previously of Papua, has been appointed photographer within the last year or two & a darkroom is in process of being fitted out. Since 1953 two or three reptile cases have been installed, & a new type-bird semi-diorama. The preparators need training in modern techniques.

Brisbane now has a 400,000 population & street traffic has increased greatly in the past two

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There are not many traffic control lights & the average driver has no thought of giving a pedestrian a break. It looks as if Australians will continue to be a lean, agile people. A very few big cars are seen. Mostly they are the small Holden, made in Australia by General Motors & Australian capital. The taxis too, are very small. There is little room in them for baggage, so the driver puts your bags in the trunk, & charges extra for it.

Yesterday I had a heart-warming experience in Sydney. I had had to bring my own bags downstairs at the hotel. The morning was stiflingly hot & muggy & I was uncomfortable in a suit I had worn all the way from New York. Took a taxi to the TAA air terminal, then air line (free) bus out to the airport. Was part way out on the bus when I realized a new Leica M3 camera I have from the National Geographic was missing. I had been carrying it looped over my shoulder & thought I must have left it on a leather couch at the air terminal. A call from the TAA office in the airport brought the information that the camera had not been picked up there. Then I saw my taxi driver of earlier in the morning. Three fares after me, he found the camera on his back seat, tried to find me at the terminal, then drove out to the airport. He did not want to take the £20 I gave him.

Sat - Sunday. Spent on a visit to brother Eric at Ipswich & overnight at Aunt SEIT's at Toowoomba. Back in Brisbane ca. 9-10 PM - Sunday. Much rain & mist in Toowoomba. Country saturated with abnormally high rainfall all this year. Springs breaking out through the pavement of streets in Toowoomba. Brother Allan drove down from Galby to see me.

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Monday Mar. 12: Newspapers here have much to say about the weakness of the Anthony Eden, & Mr. Butler's gallivanting while the Arab-Israeli situation darkens. But most of the criticism is done with a light touch which might be deceptive to a stranger. The flavor of the radio, too, is different from that of the U.S. & some things seem a bit incongruous: Hearing, from a local station before breakfast today: "Save shillings on tinned fish at Woolworths." "Miracle bra that lifts you to lovelier heights." Yesterday, crowds of managers & others waited in the rain at the airport to see the arrival of what one paper calls "my-and-come crooner" Johnny Ray, from the U.S.A. Today the town is at the feet of the "American Wool Princess," Anne Patrick (from cotton-growing South Carolina), who is here with a retinue for Wool Week.

Most of day spent on business in connection with my mother's estate.

Called on A.C. Giblin, manager of Australian Estates, & R.W. Peters of Cotton Branch, Dept. of Agriculture & Stock. Giblin reflects the happy financial position of the cattle & sheep men. Peters said the proposed dumping of U.S. surplus cotton has knocked the cotton out of the market for Queensland's small crop, which is sold to spinners in southern states. The spinners have stopped buying. The industry here uses nothing below the grade of "middlings", while in the U.S. a grade lower is acceptable.

Spent the evening at sister Edna's.

Tuesday March 13: Wrote letters, did some shopping, & worked out ration list for New Guinea.

Stopped awhile to see a demonstration of sheep shearing in front of the Town Hall. A replica of the interior of a small woolshed was rigged under an awning before the august entrance. Two men shorn with machines, and an elderly man with

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old-fashioned blades. The shears caught this sheep
in regular pens. It somehow carried away the
wool & kept the floor swift. The fleeces were trimmed
& graded by a wool classifier in white smock. Pruners
baled the wool on the spot. Only a few people were
interested in watching this good Wool Week show.

Wed. March 14: Australia seems to have practically
abandoned the use of strong brown paper
in the carton age. After trying in the town to get some
good paper for wrapping some artifacts in posting to
Tamarai, I had to scrounge some from the Govt.
Botanist. Then sending some old "curios" to Tamarai
for shipment to U.S. at end of expedition.

Day spent in calls to Queensland Herbarium,
morning tea with the W.D. Francis & Mrs. C. F.
White at Kangaroo Point, lunch with sister Edna,
packing artifacts, & evening with Eric & Rube
Humphreys at Camp Hill.

Letter in from Gusty Miller, Moorman Igoe
of Moormanby Id., & Reg Wheat of Woodlark Id.
Our cargo should reach Tamarai on transshipment
from Port Moresby by the SOOCHOW about the end of
this week (It left New York Jan. 15). Igoe offers
every assistance & so does Wheat. The former
wrote of caves to NE of Tawa Bay with bats "like
the grains of sand and big stink", according to
native report, which is discouraging. Wheat wants
us to live with him at his place at 600 ft. in
the hills near Kulanadaw, near which are caves
full of bats & human remains. Wheat offers boat
transport & all the native labor we need, including
a good boss boy. Igoe feels we might have
trouble in getting carriers on Moormanby.

Thursday March 15: Day spent on final errands, a
second visit to the Museum, & lunch
with Senior Williams at the United Service Club.
Rus' ship, the Vicorian Gem, is still scheduled to
arrive in Brisbane April 1st, but the agency say

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privately is more likely to be the 3rd. Bookings for him have been made by Qantas for departure for Port Moresby 11:45 PM April 1, & by steam Lochow scheduled to leave March 29 but expected to be some days late. Further than this, matters are in the able hands of Denis Williams in Brisbane. I will cable him from Port Moresby when I find out the local situation as transport possibilities as to Tamarai. There are five planes a week from Brisbane to Port Moresby, but only one regular plane per fortnight on to Tamarai. The Lochow usually takes about nine days to reach Tamarai via Port Moresby.

The weather here continues showery & not so uncomfortable as when I arrived a week ago.

Port Moresby

Friday 3/16/56

Left Brisbane a midnight last night on Qantas "Bird of Paradise" DC4, stopped down in Townsville, & arrived in Cairns 5:30 AM - well before daylight. There to meet me were the Gil Bates, Graze Brooks, Tom Webb, Ernie Stephens, & Alf Reed. Might be good to see them all. The recent cyclone blew up to 93 mph in Cairns; very little rain, about 30% of the sugarcane crop flattened, & losses will be heavy. The roof blew off the Bates house, but there being hardly any rain, damage to possessions was small.

Left Cairns 6:30. Grinnell boarded plane there. Arrived Port Moresby 9:10 AM. Smooth flight. Was met at the airport by Justice, 2/16 Forestry Department (the Adam is on leave), & then to meet Grinnell & me were Spent- Ivani (~~entomologist~~ entomologist), & Ken Slater (animal ecologist, with main interests in herpetology) of the Dept. of Agriculture.

Day spent on visits to govt. offices, under the wing of Justice, who came here from Queensland only last January. First called on Wilson, Assistant Administrator, then Ken Graves in District Service (formerly A.D.O. Tamarai), Lands Office for maps (Mr. Jones), Dorothy Thew

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(Plant Pathologist, who visited us in Florida last year).

Grahamstown, Chief Collector of Customs.
Cordial reception everywhere. Government will be helpful. Wilson, a new (ca. 1 year) appointee, a very quiet man. ~~Grahamstown~~ Grahamstown (known to me since 1925) showed me a special ordinance which, after the fuss we had with Customs duties in 1953, was passed to permit the free entry of equipment & materials for scientific purposes. We submit a written request under this ordinance.

Spent some time at the Forestry Dept., looking at air photos of the mountains of Tanganyika Island. It is extremely rough country for the most part, broken by great joint- and precipices. The highest peak (6800 ft. Mt. Kikerman) looks especially difficult, & there is not much mossy forest on a summit of very limited scope. Mt. May cob (5615 ft. or 6000 ft. on some maps) offers more scope & much mossy forest, & looks a better proposition, with approach from Lygon Bay. There appears to be a small patch of grass on the very summit of Kikerman.

Sgt. Ivan, a refugee Hungarian, now an Australian citizen. Primarily a lepidopterist, but evidently well grounded in zoology in general; a man of very pleasing, open, but strong personality, & apparently very good mind. Held several fellowships in various parts of Europe & ~~later~~ ~~was~~ I was out of his home country when it became involved in World War II. His wife & daughter still in Hungary.

Mar. 17: 141 Bank of N.S. Wales, Manager. David told me about the strike of petroleum gas we heard about in the U.S. a couple of months ago. This was at KEURU, Aramia River. Well belonged to Australian Petroleum Co. Was being drilled by an American contractor. Much trouble at start of bore. When trying to make up time, & not taking proper precautions, the gas was struck unexpectedly at 990 ft. (The first bore in this area). Great flow. Bore was capped, & the gas blew out in several places close to the bore. An expert flown out from the U.S. had a look at the situation, then went home. An oblique hole is now being drilled to tap the gas & reduce pressure in original hole. Govt. has sent out two

fisher. officials to determine water land ownership in
the Kuru area. Oil company doing a hydrographic
survey of coast & rivers. The whole thing, looks very
important.

Jan. Mon. 17. Talked at Steamship Trading Co., where
I met Mr. Mitchell & inquired about the
possible sailings of the Tootchow, which left for Tamarai
this afternoon with our cargo (at Pioneer Reef from New
York Jan. 15). Talked with Arthur Davis at Bank of
N. S. Wales (see above).

John Womersley, Forest Botanist, arrived by air from
Tae in morning. After lunch, with two young men from
his department, we drove first to the Brown River, then
to Pouna Falls. Some nice forest, which John calls
intermediate between rain & monsoon forest, in Brown
River Valley on flat lands said to be of deep alluvial
soil. Some cutting being done. A good small nursery
of Oak (*Tectona grandis*) on river bank, where there is
a forest survey camp.

Road stops (formed & gravelled road) at the Brown,
where a bridge is in early stages of construction. A meta-
track goes on to the Vanapa River. Long term plan is
to carry the road to Bulldog, Takikamu River, to connect
with the now abandoned wartime road which came over
the central range from Tae (a Nam).

But, Womersley's present water supply is pumped from
the Kaloiki River; said to be really inadequate when river is
low in dry season; pumps also give trouble. A hydro-
power installation about to be built some miles down the Kaloiki
gorge from Pouna. ^{open} Tamarai flume from foot of the falls
already finished, & the transmission lines (3 wires) from the
power plant site to Pt. Womersley. Hornibrook are the contract-
ors for the generating plant; transmission line built by
Commonwealth Engrs. & Public Works.

A British aluminium company is still on a hydro
survey of the western river which was in progress in 1953.
Said to now be somewhere west of the Purari.

Sunday March 18: Day spent on an excursion to Mt. Marigoto about 9:30 & returned about 6:45. Traveled in Administration vehicles: a Hummer touring car, a jeep, a land rover, & a big jeep-like thing made by Austin. Personnel, besides myself, Ken Gerritt, Eric Shaw (entomologist from the Solomon, specially interested in Hemiptera & water insects), Dorothy Shaw, Joe Tzeni-Evany, Gabriel Keleny (Port Intimidation Officer, & another Hungarian), Ken Haler, Bill Reed (Fisheries officer), John Womersley, & our host, Vince Saunders. Saunders has a lease of 600 acres plantation land where Burns Philp & Co. had a coffee plantation said to have been abandoned in 1908. He also has a licence to cut timber on 3500 acres, mostly open Eucalyptus forest. Rain forest in gullies, including an extensive body in the steep, narrow valley of NARICCO Brook.

Left the Hummer on the Tzeni road above Pouna Falls. Continued in other vehicles to a food & camp on Marigogo Br., thence up the slopes to ca. 2200 ft. near the top of the range, where Saunders has a second camp. Walked from there to ca. 2400 ft. at the nearly treeless area that was the coffee plantation; then forced back, drenched by heavy rain.

At the lower camp on the Marigogo, collected Torrenticula on submerged aphanizoid rocks & living tree roots. Alt. ca. 1500 ft., field Saunders. Photographed Gendrobium forbesii at ca. 2000 ft.

The Marigogo stream flows into the Katchi River not far above Pouna Falls. Eucalyptus tereticornis the principal tree of the open forest; E. confertiflora abundant locally; "Tzeni red gum", probably a form of E. alba, also present. Casuarina papuana? common locally on savannas & in the gully rain forest. Banksia & Grevillea papuana (?) also in savanna forest. Womersley saw Castanopsis in gully forest at 2200 ft.

Mon. Mar. 19: A very hot day, spent at Konedobu & doing business in town. Drive of District Services, or whatever the department is called after a recent re-shuffle of the Administration, had no information on any of the islands we wish to visit. Henderson, Acting Director, Dept. of Agriculture, was as candid as it seems possible for him to be. His regards

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permits, we should collect what we want. On nomination of the expedition, we radio Agriculture, St. Moritz, particulars of collection. Agriculture will arrange with Customs for an export permit.

Julius, Govt. Anthropologist, did not say outright that he wanted duplicates of anthropological materials. At end of trip we send to nearest A.D.O. list of items collected, with localities; A.D.O. will advise anthropology, & permit to export will be issued from there.

Picked up 1 mile map of Misima & Woodlark from Lands Dept. (free of charge). Made a personal call on Claude Champion, who is now Assistant Director, Dept. of Civil Affairs (part of what used to be District Services Dept.). Evan Champion, Native Lands Commissioner, was away in Rabaul with a U.N. inspection party.

Registered as an alien (with Customs Office). Submitted to Chief Collector of Customs Grahamstam a written request for the duty-free importation of our equipment & supplies.

Debbie Ryan of B.P.'s told me Friday that Bob. Crosswell, of "Barb the Air" would be willing to delay his flight to Tamarai on Friday April 6 to meet Rex Peterson on the Fantar plane arriving from Brisbane. Crosswell was supposed to be in town this afternoon, & I arranged with Bob that Peterson for a talk with him, but the meeting did not materialize. Radiotelegraphed & wrote Denis Williams that Barb the Air could be expected to ~~meet~~ ^{meet} the April 6 plane if necessary.

Savior of Bank of New South Wales took me to the Papuan Club after office hours, & then I met old-timer James. Frame, Le Groen, Trist, etc.

Tuesday March 20: Got up bed at 3:45 AM, breakfast at 6 o'clock. Arrived Tamarai 8:10. Higher peaks of main Range obscured by black clouds, & we flew through showers much of the way. Much vegetation on cliffy coast of east end of mainland covered by spray from recent high seas.

In Tamarai, our cargo is in Customs bond. Printings have Lionel Bennett lined up as transport man. Our boys from Ferguson & Goodenough

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islands are due to arrive about the end of the week.

Discussed our plans with Clifton-Barnett, acting District Commissioner, who looks & acts more like a clerk than a field officer. He knows nothing about the islands, & could not turn up any useful patrol reports on Ferguson Island, our chief subject of discussion. He will contact E. F. M. Rutledge, A.D.O. Eniwa, & suggests that I write to him.

Our first remittance of \$5,000 (£2215-0-1) has arrived at Bank of New South Wales. Bank manager is M. L. Y. Hedden.

Bob Bunting has sold his house. Gus's Miller's guest room is occupied. I am staying at the "Guest House", run by Mrs. Hansen. Very crude. No sinks or wash basins in rooms. No water in one of the two common bathrooms. No hot water. But the food seems good.

Had dinner with Gus & Hilma Hall. Cliff Brennan, visiting insurance man, also there, & Mr. Eribben. Eribben has recently opened a trade store at MAPAMOIWA.

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1956

J. J. J. J.

L. J. BRASS

15

Tamarai

Wed. March 21. Rain from about 3 AM to noon.
 Thick weather after that. A
 boat was prevented from calling on a flight
 from Rabaul (with U.N. delegates) to take to Jail
 11 mostly a woman (Mrs. Bruce Hamilton) danger-
 ously ill with a gangrenous leg.

Engaged as transport man at £70 a month
 Lionel Bennett, Papuan born & reputed to be a
 good bushman & linguist. We knew him as the
 master of a small ship in 1953. He starts April 1st.
 Most of day spent on paper work - going
 over maps & notes with Lionel, after writing, etc.
 Just at guest house Bruce Hamilton, born on
 Woodlark Island, author of "Folk Tales of the Tuggie
 Muggies," is now manager of Gili Gili plantation.
 Rather drunk, & not well thought of in town, because
 of neglect of family. He gave me an autographed
 copy of his book.

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Thursday, Mar. 22: Another wet morning. Then letter writing. Formal application made for release of our cargo from bond. Kelly, Customs man is in measles quarantine in jail, school master is acting collector. It rained about the cargo went to P. Assembly yesterday.

Talked by radiophone with Beanie Ryan of B.P. in Thursday & had confirmation of an arrangement for Carr to meet Mrs. Loomer's plane in April 6 - if Mrs. arrives in Thursday then.

To dinner with the W. Cottrell - Loomer (Dept. of Agriculture). Pleasant evening at their house on south shore of island. Loomer was formerly director of the department in P.M.C. Has had experience in Malaya & Tonga. Has two assistants in Tamarai. Doing much planting of pilot plots of coffee - mainly arabica, some robusta. Runs extension courses for select natives from as far distant as the tip of the island concentrating on the growing of dry rice as a native food crop. Mrs. Loomer is a sister of Nick Healy.

Loomer speaks of Woodlark Island as having a rich & in some ways peculiar flora, with similarities to country about SAMARU, on Ferguson Isl.

Friday, Mar. 23: Still somewhat rainy in AM; breeze continues SW; heavy dark cloud over mainland mountains.

Cargo released & moved into Bunting's bulk store, in same position as 1953. Have 14 of the 17 crates unpacked. Bunting's have loaned me two good boys.

Talked at Cottrell-Loomer's office & he loaned me copies of his report on Woodlark Isl. etc. D.C. Clifton-Barnett loaned me Tamarai Study 34 on the Tamarai Archipelago.

Tamarai weather is sultry, but temperatures (82°F. max. today) are not too oppressive except in Bunting's bulk store, where I sweated copiously today.

1st new arrival at guest house today was a Tongan,

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April 30. Left Waikanae at 7:15 with 118 men
I reckoned about 38 loads, including men
for carriers, but Lionel is not a precise organizer
and (fortunately, more carriers offered than were needed.
Some carried light loads. Tighi was from SALWATAITHI
on the east side of the island.

HERUDOWA River reached at 7:35 (about 1 mile).
Crossing it four times, we started up a long steep slope
& reached Teddy Ballantynes former gold workings on
PUATAI Creek at 9:20. Alt. 250 m. True ferns & birds
of Paradise (P. decora) a little below this. Here well managed
tall rain forest. Creek very bouldery & with moderate
fall. Stayed over on brown & had drink of tea while
the carriers cooked rice.

10:45 Moved on (alt. 280 m.) Up creek a few
hundred yards then fairly steep climb in places (but
slopes generally gradual).

12:20, 550 m. Forest of smaller trees in which
Lacrydium appears; many surface roots; scrambling
glades (bamboo & a climbing Wapentha). Rain forest.

620 m. First oak noticed in the stunted forest (it was
cut by way a week ago). Glade tree. Not a change
to regular mid. mountain forest.

650 m. Diplazium conjugata growing beside a 30 ft.
Lacrydium which Ted & Lionel climbed to view Lewa
Bay on their reconnaissance.

660 m. Distinct change to stunted forest of Lacrydium
& small leaved angiosperms. Much Sphagnum on
ground, scrambling Hydrocotyle corymbosa, a bladder-
wort growing in moss on one tree.

720 m. Reckonit Knob. Forest is a small steep hill.
Many palms & a change to good tall forest mark camp site
about 1/2 mile ahead. OBIA prominent to right.

710 m. Lacrydium forest reached a steep small rocky
stream.

2:15 (±). Camp reached. Lionel, most of our own boys
& a few fast carriers ahead of me. Alt. 780 m. Camp on

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 10/15/2010 BY 60322
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PABINAMA Mountain in what appears to be tall "mossy forest". Forest composition still to be seen. Eucalyptus and *Podocarpus* flowering on edge of camp clearing. Alt. at 4:30 7100. Some mist from mid afternoon into evening.

Two fly & two tents rigged; a palm shelter for cook house. Good level ground. A little more clearing will open up a good view of the coast & the S. edge of Goodenough Bay on the mainland. Lancel & Ted did an excellent job in opening up a route from Ballantynes Camp & picking the camp site.

On their return trip Lancel made camp at altitude 7300. Ted 7770 ft. The mountain to be only a few hundred (500-700) feet below the summit of the sharp-topped Pabina Mountain OBIA (3400' on the 1-mile map); so our altitude is probably about what Gray made it - say 7700 ft.

Tuesday May 1 Continued light rain before dawn. Nothing to do, into evening (7:30).

All hands spent most of day in preparing this PABINAMA Camp. Digging latrines, making water tables of sticks & split palm, etc.

Tarriers given breakfast of rice, paid 7/- each, & sent back to their villages. Tent with one of the three visiting councillors a letter to Norman Spelt, posting him a copy.

Did some botanizing in afternoon. A common small tree fern (*Cyathea*), 4 tree f.p., etc. collected. A *Xanthorrhoea* (a ~~*Boerhaavia*~~ *Boerhaavia*) fruiting plentifully in the forest, indicates that this is what I have called "mossy forest". Forest canopy at camp about 16 ft. high. Many all small-leaved trees.

and of many small
leaved trees

About 115 traps out this evening. Several *Petaurus* calling around camp. Some shots fired at a small bat frequenting a small-leaved tree with acid white fruit common in the forest (*Pteronotus*?).

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Wed May 2. A very slight shower in afternoon. The
 only rain. Mist towards evening, also
 (not daylight) (5 AM) but clear & moon shining through.

Went up the slopes of PARINAMA to the end of the
 cut track at 805 m. (alt. in camp when I left 730 m.).
 Then cut to crest at 825 m. (later 840 m.). There is
 scrub there on the south of the crest. It consists of
Worthenia & other broad-leaved plants with Sporobolus
confusus, a great deal of Gleichenia fern
 found in 1933 on Mt. Cayman & Goodenough Id., &
 protruding above it on the S. slopes an open stand of
Eucalyptus stunted to 3-5 m. It filamentous red
 fungus? conspicuous on branches of the conifer.

Obtained distant views from the crest,
 but got a glimpse of the BUNAMA promontory.
 Mt. OBIA bore 228° magnetic; a southerly peak
 appearing about equal in height was 140°. Sounding
 of an axe, probably in camp, 305°. North end of
 NUKAKATA Island 185°.

The beach was a good find. Collected were
 several trees of the mossy forest - unfamiliar to
 me. An abundance of stunted scandent bamboo in
 forest generally of open canopy, probably as a result
 of damage by hurricane winds years ago.

Ran followed the track in the afternoon & now
 trip on way up to the crest. Mammal signs (?)
 include uprooted yellow clay under moss - turned tree
 roots, & what look like runways. Much shooting
 into the white-frosted tree last night: 2 Myiophobus.

Thursday May 3. Mist on & off a good part of day after
 9 AM: some smart showers noon to
 2 PM.

Botanized down the track in the stunted, open, heavily
 mossed Eucalyptus forest. The conifer only 3 ft high
 at most; Myrsine & Myrsine (very stout
 species) common in branches. A Telephium, in

flower, was plentiful as a tree 5-6 m. tall. It
 is the same then also; not seen in quantity, & seemingly
 different from the one found on top yesterday. Another
Wapentia there too, looking like W. nimbilis & having
 the mossy flower as a characteristic of that wide-
 ranging species. It grows ridge (#25 (SL), with green
 stems usually several meters long, a nuisance in this
 forest; a slender, tall, sharp-edged Telenia also.

Climbed a Geogonidium at ca. 750 m. & made
 photos of Mt. OBIA. Liou took some bearings from
 camp. Duckers Island 302°, Anne's Inlet Island 262°
 magnetic. Saw the weekly PBY 7. in flight toward
 Samarai.

Took bristly gray, short-tailed Rattus, apparently
 different from the lowland species, caught in traps.

Kimbi boy, sent down the slopes to shoot for the
 pot, returned with one blue pigeon & an old male
Paradisaea decora. The parakeet bird prepared as a skin
 by Kim.

Friday May 4: Occasional clouds down a mountain
 from about 8 AM; showers, some heavy,
 about 11 to 4 o'clock. Then stormy night (8 PM).

Had some trees below camp cleared today to give
 view of coast. Great expanse including islands off Lave
 Bay coast, West end of Ferguson, & all the peaks of
 Goodenough. Liou at dusk tried to signal two
 small vessels in sight; no response.

Botanized in a small creek less than 1/2 mile on
 the steep slopes to the SW toward OBIA. Nice lot of ferns
 including Vandumbesia, Leptopteris, & a second

Cyathea for the locality. Two very interesting small
 rubicaceous trees, one with curiously interped calyx &
 long, fragrant white flowers.

Took gray Rattus in traps, a Mytilimene shot
 last night, & a Gobsonia from a mangrove today by
 Liou.

[The text in this section is extremely faint and illegible, appearing as light gray smudges and lines across the page.]

Gathering more plants than I can carry with me.
Picked a bundle today.

Tue May 5: No rain last night. Clear until near daylight.
The coldest night so far. Temperature at 6 AM
(5 F.). Intermittent mist & rain all day (some heavy
showers) from 8-9 to 3-4 o'clock.

Too much rain & visibility too poor for satisfactory
botanizing. Worked in new territory to ca. east opened up by
Lionel yesterday. Close under crest of mountain. Wide nearly
level strip of several acres (as far as seen) covered with
good tall mangrove forest (fairly open underneath & easy to
get about in). Composition about as at camp level, but
a beach is a canopy tree. Collected a Lyzygium with
small leaves (25735) & white subacid fruit which is an
important dominant all through the forest (fruit eaten
by Petaurus & Mytilinus at camp). Also gathered a
tall palm, common in the latter mangrove forest of this &
neighboring peaks, which has the appearance of a slender
coconut.

One rat & a rabbit in traps. No shooting. Lionel &
Ibik-lik camped tonight to trap & shoot on the flat
ground mentioned above. Found them today the spading
of a palm from which a goat appeared to have been
removed by a Lachyspila.

Tinkler to WAIKAIWAI for mail & on to Fawa Bay
to try to get a native to come up here with hunting dogs.
One of the councillors was supposed to have brought his
dogs before this.

Sunday May 6: May 27th, min. 13.5°C. The usual clear
night followed by clear until about
10:30 AM. Clouds & heavy showers after that to near
dark. Weather day so far pretty nice (7:30) warm.

Opened a new trail across the water place
stream is a bit N of sunrise. Got into thicket
Sacrydium here, so cut up to "Lionel's Place".
Poor morning, before rain sent me back to camp.

The first thing I noticed when I stepped out of the plane was the cold. It was a sharp contrast to the warm, humid air of the tropics. I pulled my jacket closer and looked out over the vast, flat landscape. The horizon was a straight line in the distance, and the sky was a pale, hazy blue. I felt a sense of isolation, but also a sense of freedom. The air was crisp and clean, and the silence was profound. I took a deep breath and felt a sense of peace. The world was so different here, so much more open and expansive. I had come to a new place, a place where I could start over and begin a new chapter in my life. The future was uncertain, but for now, I was content. I had found a place where I could be myself and live the life I wanted. The cold was just a small inconvenience in the grand scheme of things. I was here, and that was all that mattered.

Appendix A

The following table provides a detailed overview of the data collected during the study. It includes information on the participants, the experimental conditions, and the results of the various tests conducted. The data is presented in a clear and concise manner, allowing for easy comparison and analysis. The table is organized into columns, with each column representing a different variable. The rows represent individual data points, providing a comprehensive view of the study's findings. The data shows a clear trend, with the results of the tests being consistent across all participants. This suggests that the findings are reliable and can be used to draw conclusions about the study's objectives. The table is a key component of the report, providing the evidence needed to support the conclusions drawn. It is a detailed and thorough presentation of the study's data, ensuring that all relevant information is included and easily accessible.

But collected male flowers of the Urtica sp. the first got in the Encyrtum forest at 750 m. I saw a small canopy tree in full many forest.

Nothing in traps. Nothing shot. Nothing from Kiam's night camp.

Tinker returned from Makainana with a big lot of mail, including a letter written by Jeff Tate. One from the Rev. Brantwell of MENAPI tells that "in 1894" he followed our trail up Mt. Mianan, camped two nights at our #2 Camp, & from there went to the summit. Good to hear Tinker in but it along more collection & collecting.

Monday May 7 Clear night. Wind driving a sharp shower from about 8 to noon. Clear & mostly clear to dusk, sea very hazy; wind from N & more brisk than hitherto. May 6, rain 15°C.

Returned up to the crest of the mountain, with much trouble (mist & rain) made a few photos. This crest about 3000 ft. seems to be the 3400 ft. summit of the peak, although I have never in three visits had clear enough weather to see all around.

Two Mytilus shot from fruiting trees at camp during night by Rev. Eight Pogonocherus cut from hollow trees, five from a bit above camp level by the mammal boys, three from about 500 ft. below camp by Kiam's two boys. Measurements indicate the species the same as on the coastlands of MAKAIKAI.

Yesterday's mail brought word from Puntling that they expect to send a boat to move us to Fungusa Pt. on the 18th or 20th. This a day or two earlier than I asked. I have therefore decided to move

3 End of my down to the coast on Saturday if carriers are available. Saturday is market day on the coast, when large numbers take their refuse to the beach shore, etc.

My dear Mr. [Name]
I have just received your letter of the 12th inst. and am
glad to hear that you are well. I am also well and hope
this letter finds you the same. I have been thinking of
writing to you for some time but have been so busy that I
could not find time. I hope to hear from you again soon.

I am sure that you are doing well and that all your
family is the same. I have been thinking of writing to you
for some time but have been so busy that I could not find
time. I hope to hear from you again soon.

Yours truly,
[Signature]

Enclosed find a check for \$100.00 which I have
just received from the bank. I hope this will be of some
use to you.

I am sure that you are doing well and that all your
family is the same. I have been thinking of writing to you
for some time but have been so busy that I could not find
time. I hope to hear from you again soon.

I am sure that you are doing well and that all your
family is the same. I have been thinking of writing to you
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time. I hope to hear from you again soon.

Tuesday May 8 May. 26, min. 19 C. Bounteous north wind whipped the mist all night, accompanied by mist & some drizzle. Wind somewhat abated by the afternoon. It rained.

Went down the trail to about 700 m. (600 m. by my aneroid at about 30) & then collected the oak tree on the way up. Flowers only, & only a subsidiary tree in rather shaded mixed rain forest. Nothing else of special botanical interest although the first Freycinetia for the trip collected. Big species with soft, almost unmarked leaves & yellow bracts.

A good day for mammals. It Myiarchus shot last night by Lintel on his "plateau". Two gray rats in traps set by Rios boys. Four Pogonomys cul from a tree by Lintel & his boy, plus "Tupia". The prize was a brown Phascogale trapped by the cook; largest animal; a male; pencil drawings by Rios.

Wed. May 9: May 27.5, min. 19 C. The morning wind not so strong, but continued through last night. Weather still from N today, mist much of time; light sprinkles from one sector through afternoon.

Went to the summit of PABUHAN for the fourth time to make pictures. Eventually got several half misty ones of OBIA with East Tape under its south shoulder. Two plants collected. In afternoon sent boys into the Geomidium forest for an orchid with spotted leaves which grows here & there in the Phagnalon ground moss. It turns out to be Papillipedium (?), of which a species collected by me in the Palau Valley in 1938 was such a prize that it was named for Queen Matheline. Like Epripedium. Small purple-brown flowers much damaged by insects (?).

Another good day for mammals. The prize this time a black Hydromys from the small stream SSW of camp. A Rattus also in traps. Five Pogonomys cul from a tree.

Lintel went down to Wakuina to arrange for carriers for Saturday.

Thursday May 10: May. 27, min. 18.5 C. Cloud drift still from N but wind down to a gentle breeze. No mist in camp. No rain. Potamo resumed collecting in the

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the life last night; they were silent, & few bats came in feed during the windy night.

Retained in the direction of 141. ON 111 about $\frac{1}{2}$ mile & down the edge of a canyon - like ravine to about 750 m. altitude. Rain forest - many forest transition zone. Bot. Three large Lyallia spp. from the ravine & a red. hairy Gicksonia from about 800 m. This makes 6 spp. of tree-ferns collected thus far.

Got with day for mammals. One in water. Skilling. a brown animal which I think is the second record of the genus for the St. Lawrence. Van got one on Goodson, he in 1953. Stor Pogonops cut from a tree by mammal boys sent in record of capture.

Friday May 11: May. 27, min 18.5 C. Rather windy again last night & today. Intermittent small mist clouds. Wind from N to NE. Very hazy today. Strange weather is, fortunately, rather dry in the mountains. The SE trade should be flowing steadily in May. No rain.

In camp, drying specimens & preparing for tomorrow. Janet will not come up the mountain with the carriers.

One Rattus in traps & one Myctomys shot in camp by Rex last night. Some special traps being left out tonight. #

The almost final count of plant collection for the camp gives 156 numbers (including 30 cellular cryptogams) & 327 sheets of specimens. It could have been better. The flora is not rich. Insect collecting has been poor; very little any night from the light traps; hardly any butterflies; best results in damselflies; only one dragonfly caught. There is not enough open habitat for butterflies & Odonata. Frogs, with 7-8 spp., have turned up fairly well. Few lizards (perhaps 2 Skink & 1 gecko spp.), no snakes. A small cat from the little ~~stream~~ stream to the SSW.

THE
FEDERAL BUREAU OF INVESTIGATION
UNITED STATES DEPARTMENT OF JUSTICE
WASHINGTON, D. C. 20535

TO : DIRECTOR, FBI
FROM : SAC, NEW YORK
SUBJECT: [Illegible]

Re New York letter to Bureau dated 1/15/64.
Enclosed for the Bureau are two copies of a letterhead memorandum (LHM) dated and captioned as above.
The LHM is being furnished to the New York Office for its information.

The LHM is being furnished to the New York Office for its information.
The LHM is being furnished to the New York Office for its information.
The LHM is being furnished to the New York Office for its information.

Very truly yours,
[Illegible Signature]
Special Agent in Charge

Sunday June 3: Overcast morning; heavy rain most of afternoon, ceasing towards dark.

An unpromising outlook for our planned transport move in the morning. This is the fourth day of bad weather in a row. Everything but our swags and the cook's box and pots and pans is packed tonight. Including 150 lbs of rice for the road there will be 47 carrier loads, 37 of which will be going on from Aganoia.

Lionel leaves early in the morning for Mapamoia and I will take over the transport man's duties. Today Rus finds himself practically out of flashlight batteries (only 10 new ones on hand for four weeks of field work remaining to be done on the island). Here at Iamelele we are in a radio reception blank spot for the Samarai transmitting station. We have no information on boats or planes. Therefore, if the mammal department is to function, Lionel must do the 6-hour walk to Mapamoia, get on the radiophone to Samarai, then walk down the south coast (-7 hours to Ailulua and from there climb the mountains to our proposed camp. If next week is fortnightly paine week for Esa'ala, the batteries can be flown there Tuesday and we can send a messenger (3-4 days and a ferry trip across Dawson Strait) for them. There might be a boat coming in this direction. Tomorrow will tell.

Mails will go out to Mapamoia in the morning, my corrected galley included.

Monday June 4: Rain & SLP. Started at 8:15 AM with 36 carriers, arrived AGANOIA 1:12 PM. A very hard walk. Fortunately the weather held fine. Had to leave 11 loads at Iamelele. ^{Three} loads of carriers. Carriers were from SAIBUTO (9) and IAMELELE #1 & #2. Had VC's from Taibutu's Iamelele #2. The Taibutu councillor who went with Lionel up to MAIKO track & also on his explanation of last week.

Reached FAGULU 10:10; very hot over the thermal area. From followed a narrow path through tall forest; were carried across 3-4 small streams still running strongly from yesterday's rain; track muddy, under water in places. In 20-30 minutes from Tagululu entered fine tall forest on rising ground; many great clean dip. conifers; ground stony as at MAIKALUNA.

At 11:20 rested at the high stream soon after passing an area of Imperata & Melaleuca savanna. First land going followed this. At 12:45 came to the crest of a narrow ridge at a place where old coconut palms marked the site of a former village, fine view of Lake LAVU & the Amphibolite of the NE coast (plaster); boys climb for drinking water - very welcome; altitude 200 m. The lake shown on the 1st mile map is actually an island in the lake. Small islands of grassy vegetation off coast in the lake; edges marshy.

Reached NIUBUA 2:05; lunch 2:15. ~~3:15~~ (many carriers did not arrive until after 3 o'clock); perhaps half dozen houses, good rest-house & barracks; 270 m. to the high point on road.

(nearly)

General Information

1. Name of the organization: [illegible]

2. Address: [illegible]
3. Phone: [illegible]
4. Fax: [illegible]

5. Description of the organization: [illegible]
6. Purpose of the organization: [illegible]
7. History of the organization: [illegible]
8. Current activities: [illegible]
9. Future plans: [illegible]

10. Contact information: [illegible]
11. Website: [illegible]

12. Other information: [illegible]

13. Additional notes: [illegible]

14. References: [illegible]

15. Appendix: [illegible]

16. Signatures: [illegible]

17. Date: [illegible]

Left NICHOLAI 3:05. Hamlet of LEGI AGAMIA, 3-4 abandoned houses, 680m. 3:40. Most of this ~~distance~~ distance through very steep narrow ridges; much oak in the primary forest. Much obstruction.

Dropped down through the primary forest to LILAI track, 160m. at 3:55. Eniguli hamlet on low east bank. Growing here was a young *Dracaena*, ca. 30 ft. high, said to have been washed down as a seedling by a flood.

AGAMIA, a village of about a dozen small houses & a dilapidated mission church (Methodist). Good rest house, but small for our needs as a collecting camp. Very friendly people. A VC & several councillors, also 3-4 older men than one often sees. The women were busy cooking food when we arrived & towards evening brought 22 earthenware pots of food, sweet potatoes; paid the government price asked, 1 stick per pot. Bought food for our 36 carriers, & "company" boys, & hangers on for supper & breakfast. Alt. 210m. First timber to shoot a wallaby for the carriers; saw three, got none.

This AM at 6:15 Licet, with GALUWINA carrying a light bag, off for Chapamawa.

Tuesday June 5: Only 6 of our 37 carriers of yesterday were willing to go on to the mountain camp despite an arrangement with Licet that they would do the whole trip. I discovered this last night, fell in the carrier & talked through Kim. No good. Therefore asked & was promised 25 carriers by the Ugamoria V.C. People want the 40 per day.

Local carriers late in morning up & it was 7:30 before I got away with 25 loads (6 of them women) & the 6 remaining Tailbuts. These local councillors carried full loads; Tailbut councillors with us.

Road followed the Ugamoria spur ridge up a little way then dropped through primary rain forest to cross the LILAI at 7:20m. (Ugamoria 170m. this AM). BUDAGIATUGONA hamlet on far bank. WA-10 hamlet of 3 houses 8:30. Mostly steep climbing from then on, with sharp. After OIBWAGIA (field Tailbut councillor) crosses the Lilai on left.

At 10:30 reached alt. of 700m. where the track left the crest of the spur ~~was~~ had been following. Big *Dracaena* trees in oak forest here (oaks for ca. last 100m.). Very steep steps descended on a very narrow ridgling track to a rocky small stream at 650m. Reached stream 11:00, ahead of carriers. Lunch stop for 2 hours. First water. Camp supply. Light showers as we rested.

Camp at 750m. reached at 1:20 after a very steep ~~up~~ 25 minute climb from stream. Good ground. Oaks predominant.

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8 conspicuous by brown under surface of their leaves, in wet-looking forest 50-100 ft. high. Camp on a nice bench about 50 ft. below crest of the main Igamaia-Morima divide.

Paid off the local carriers at their request - I carried them by 50 lbs. rice. - They left for their village about mid-afternoon. (Besides the three councillors, the MIBUHA policeman carried loads).

The two flyps I may not rigged before dark, & the boys finished making their sleeping platforms well above the ground.

Our dream of Kirona is somewhere between here & Samale. Borrowed a very small hurricane lamp (German) from one of the Taitale carriers & set by, it was in bed by 7 o'clock. The last two days have been strenuous.

Tue. June 6: Heavy rain, with thunder, through much of the night after 11 o'clock. Rain on & off, with rather strong wind, all day, hampering the work of rigging camp.

Paid the SAIBET carriers & gave the councillors a present of £1 after breakfast; they disappeared over the crest of the divide on a visit to the Morima coast.

Took off supervision of camp construction to examine the divide above us. Camp altitude when I left was 775 m. by aneroid, Kion's right camp on the crest, a bit to the west, 800 m. It saddles in the divide to the south, under a peak much higher & bigger than ~~our~~ our slight eminence, 750 m. In this gap the natives have cut a fly-way which they net for pigeons. A rattan cane stretched across the fly-way has small bunches of dried grass attached to it. Watching natives shake the rattan, the attention of the pigeons is caught as they fly over, & they go into the net.

Animal carriers arrived at 8:50 & at 11 o'clock Rur arrived from Igamaia; had 10 carriers & three spare councillors; journey of 4 hours. Carried by 13 Taitale men. The 11 loads I left at Samale on Monday reached Igamaia about 2 PM yesterday for 106 for Rur to come on.

Nothing in 30 traps put out 106 yesterday. A whinnis of many cicadas ("cicada crickets"?) at 5 min. to 6 PM.

Thursday June 7: Raining & squally much of last night. Keen wind from NE in forenoon; high overcast & little sun all day; some mist in traps 106 afternoon; no rain to nightfall.

Lionel arrived from Napamou about 11 AM, having slept at UKECKEE (UKAICKAIC & 1 mile up) on the flowing coast. Had 16 village constables & a councilman with him, also WAKITA, who was Pandi head boy on the Fly River in 1936-37. Nalia had I was here & came up to see me. Lionel walked up the in about 3 hours. Good track, he says, & moderate slopes.

The threatening weather in early morning kept me close to camp. Believed on the immediate crest were 36 numbers. Mostly basic species, but a nice *Tapeza* of the substep, a *Epithema*, & at least six orchids including a brilliant orange & yellow *Epithema* of which I made close-up color photos. Forest of crest, as of the upper slopes, dominated by an oak made conspicuous by brown under-leaf surfaces. Tall *Stranoea* prominent on crests of main ridges & lateral spurs.

Nothing in 125 traps out last night. No jacking.

All daylight this morning, & yesterday too, heard the beat of drums down the slopes to ca. north. No cicade sounds this AM.

Camp construction completed. This afternoon had 2 plane boys begin cutting forest to open up a view & let the afternoon sun into camp. If lucky we can see Lake LABO & the coast of Huaytes Bay.

Friday, June 8: Fine day until 3 PM when mist settled down at camp. Went to forest until a little after dark. A few sprinkles with the mist; patches of blue sky sometimes showed through. 11 clear.

Cicadas began to sound at 5:55 PM; no sound from them this morning. They do not begin their evening choruses with an extra lead, shrill note, as on the mainland.

Lionel cut a direct track to the top of the first & second peaks in the east; he did not carry the animal. I followed an old, very bad native track which riddles around the N side of the first peak. In rain forest; nothing of great interest. Track very narrow with steep fall, & made dangerous by slipping the roots. Had one fall.

One Young Gray rat (*Rattus*) in traps last night; from *Pogonomy* cut from a tree today. 175 traps out tonight, including a steel pit with meat lure in camp, & two rat traps set on trees in camp.

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Three women & 3-4 small boys & girls stopped on
 from a two in camp on route FRIYAHIA on the MORIMA
 Coast to AGAHICIA. Unusual to see women travelling
 without escort. A man & his son & a dog, same species,
 came up from the Morima coast. The AM is satisfy
 his curiosity about us, & went back after a meal of rice.

Fri. June 5 In mist cloud, almost continuously from c. 8-4.
 (Thunder every night since we have been here). Wind c. SE.

Potomized restwands along the crest line ca. $1\frac{1}{4}$ - $1\frac{1}{2}$
 miles by a new track cut by Lianet yesterday. Highest
 elevation 850 m. by aneroid, which must be wrong. We
 will have to see the marine charts for altitudes here-
 abouts. The 1-mile map is quite unreliable for any-
 thing. A Gicksonia probably the most important plant
 collected. Several more orchids. Two sp. Myrsine.

Lianet cut further along the ridge crest in the clouds,
 reaching 800 m. by aneroid.

Another Young Gray rat in ca. 175 traps out. Seven
Pogonomys cut from one trap by the boys. Three boys
 looked for nothing last night; Res, for a while before
 dawn, shot at two bats. A comparison of Pogonomys
 total-length measurements by Res shows the Morima
 animals to be much bigger than those of this island;
 the mountain forms bigger than the lowland on both
 islands.

Photographed soon after sunrise the newly opened view to
 the N; Franciscus against the morning light. Clearing
 finished this afternoon; a grand view of the island from Mt.
 Maybela to IBAWA to Mt. Kithman (15 N slope) to the NE.

Some Morima people brought 1 coconut, lime,
 & a few taro, kate, & sweet potatoes to sell for tobacco.
 These men with dogs came to inquire into the matter of
 hunting for us. Not eager to start on Sunday. We

[The text on this page is extremely faint and illegible. It appears to be a multi-paragraph document, possibly a letter or a report, but the specific words and sentences cannot be discerned.]

offer 10/- for the black forest wallaby (Dorcopsis), which is said to be found sometimes in small streams in the mountains, 5/- for caracal & bandicoot, 10/- for the first Dactyleopis.

A fresh supply of batteries from Tamarai, expected today, did not arrive. By arrangement by Liuet on the radio from Napamoiwa the "~~Kedeluma~~" "Kedeluma" was supposed to have dropped them at HILUHAI yesterday. The Morimo people today said the boat had not arrived. Jacking now being done on HING NAA "Five Rams" batteries made in Hong Kong, bought at 4/- each by Liuet from Tribner's track store at Napamoiwa. This will be about their last effective night.

Among today's plants was a fruiting specimen of an epiphytic small-tree Rhododendron, past flowering, but with great fruits 17.5 to 19 cm. in length. Will save seeds if they seem mature enough. Another epiphytic small-tree Rhododendron grew beside the first, past flowering. On the highest spine crest grew a Xanthoxylum or Encaspermum with small, pointed leaves - a "moss forest" element; but I would apply this designation to the forest as a whole (perhaps a stunted rain forest).

Sunday June 10: Clear, hazy dawn. Showers, some heavy, from 10 AM through rest of day. Last night was clear to starry.

Returned perhaps 1000 feet down the HILUHAI-LECKED track. Shortly good track on the crest of a spine on which some fine Heurancas grew in oak forest. Thus as far as a ferny (Gleichenia) rest clearing, when rain & thick mist drove me back. Half-hour's walk back to camp. Two spp. of Byrrhus (one of which was at 1500 m. in Goodenough) the most interesting of ca. 20 plants collected.

Weather prevented continuation of track cutting on the high crest by Liuet, who sent word to AGAHMOIT for carriers to move us down on Monday week.

Nothing in traps; no results from jacking last night. The day for mammals saved by the arrival, about

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I collect, of a cheerful Morima man with 3 Pogonomy cut from a tree & a young bandicoot caught by dogs. Had a young son & two dogs with him. Came & went in rain. Will sleep in his village & come up to us when he has specimens.

Lionel has a cat net on edge of camp tonight.

11. Mond. June 11: May. 23, min. 18°C. SE weather of yesterday continues. Mist in the valley by 9 AM. Rain before noon & most of afternoon - on & off. Weather is hampering botanical field work. It brings heavy conditions which are against photos of the fine view from camp.

Collected this morning the fine Araucaria of this island. It looks like A. cunninghamii but could be another species. Picked a small but old tree 30 m tall x 72 cm. trunk diameter; cones small, about half grown; photos closeup in color. Was disappointed with the meager variety of epiphytes on the ~~big~~ old Araucaria: a Hydnophyllum, a Myrmecodia, Felligera & one or two other ferns, one small white orchid & a little reddish Dendrobium in flower, & very few bryophytes. A grey Urena conspicuous on other old Araucarias.

No mammals got in any way last night. A native hunter brought from somewhere down the Morima slopes (to way?) & brown cuscus & two small bandicoots. He & his son & two dogs are camped in a leaf shelter on the ridge crest nearby. About a dozen small boys & girls, & a couple of young women from the Morima slopes in camp this morning. The bandicoot being got here is much smaller than the 2 specimens from Samble.

Lionel cut further along the crest & reached top of a small steep peak 15-16 m. by the faulty aneroid. Clouds prevented his seeing out. Distance from camp estimated as 2 1/2 miles or more.

Tuesday June 12: May 23°C, min 18°C. Mist on & off 8:30 to dusk. Only slight showers, but heavy rain 6 PM - 11. SE continues.

Spent day in camp after collecting a palm fairly common on the ridge crest. Resembles the coconut-like sp. of Mt. Tebinama, but not so tall; may be another species. Sent boys to collect down to water on the Morima slopes: ca. 8-10 plants new to the collection.

Photographed a bat (Macroglossus), & two orchids (a white Amnistris & a small, dainty Stomera), with close-up equipment.

19 big brown Putorius (2nd spp.) in traps; 2 Macroglossus in the net at dawn (this happened to be standing there after being out with his jacklight), 4 cuscus, a Landicoot, & 3 Putorius brought in by natives. An excellent day. Have put a limit on cuscus, which evidently are easy for a native to find with dogs. Turning over interest in Dorcopsis & Dactylepis. I found today a bamboo from which most likely a Dactylepis had extracted a grub from holes gnawed in the wall of the internode.

Mammal boy ISUHELE on his third consecutive day off duty with fever & a sore throat. Gave him 2 sleeping pills at 1 AM to quiet his groaning; put him on a camogum routine beginning today (3 pills per week).

Wed. June 13: Max. 26.5°C, min. 18°C. Much rain through last night. Cloud & mist to mid-morning. Sunny after that; SE cloud drift.

Weather kept me in camp preparing plants, to 10 o'clock, then went down water-plant ravine (± half way). Collected some good things, including 2 Hymenophyllum, a common Polypodium, small Stemacarpus of the undergrowth Geryocarpos, etc. Have far more plants on hand than I can dry out; am more than a day behind in getting specimens into the dryer.

The mammal got last night. The native hunter camped nearby brought in this afternoon a fine Landicoot, blackish on head, neck & shoulders, & 5 cuscus of various sizes. Have stopped buying cuscus.

Action taken to see what has become of the "Redclawia"

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In the bathroom she was supposed to have dropped at Hialeah for us during the weekend. Pinker departed 5 PM for Miami with a request for Busby to get in touch with Huntley by radio phone. Timot went down to the coast at Ocho Rios; found that no boat had called in there as at nearby Hialeah. About 10 small boys, a married young girl, plus a couple from Ocho Rios, bringing a few bananas for sale but chiefly to have a look at us.

Thursday June 14 Max. 77° , min. 16° C. Then, SE wind, most of last night; air quite chilly. Little cloud; no mist today; no rain; SE continues.

Walked down to the water-place gully & for a little way along the side of the mountain on the Elcamino trail. Fair log, mostly of ferns of the ravine, also an interesting Rubiacious small tree with small white flowers.

No mammals added to collection except a Sitta (Pithecus) shot last night in camp by Tim. The hunters went down the Pihonma slopes for bats & did not return! Tonight the water-place stream is being trapped for the first time. Traps were supposed to have been there from the beginning. Boys need more supervision than they are getting.

Working a double shift on the dryer in an effort to clean up accumulated plant collections.

Friday June 15 Max. 73.5° , min. 16° C. Then, still night; no mist or rain in the 24 hours; weather SE & heavy.

Worked on specimens & small boys down Pihonma slopes. They brought back only seven additions to the collection. The locality is about worked out.

18 brown Mutings in the new trap sets on the stream. A Myctophaga gambusia in one of the two (at night) sets in camp. Mutings is a genus new for the island. No insectivorous bats caught so far in the few nights' nets have been set on the trip. Also they are furnished with

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"racker," is the fruit & nectar-eating species not so equipped?

One of the *Phonima* hunters who have been camped nearby returned this afternoon from a visit to the coast. Brought 3 small *Gobromia* from a cave on a creek near UKECKEO, a *Mytilinus* is a bandicoot. It was in the bag when I passed it by the evening; hunter has perhaps gone home for good. He has brought a nice lot of mammals for the collection & on local values, has earned a considerable amount of money for himself (he has had a companion most of the time). The man has earned ~~40~~ 30 for.

Watched in amazement this morning, Samule eating a great plate of boiled rice after two days of illness & much groaning during two nights. It brought the remark from Lionel: "When these bastards stop eating, they're croak."

Tinker walked into camp at 6.45 PM, having left *Phopamoia* at 10 AM, he says, & walked the last part of an hour on a mountain trail by flashlight. He brought mails. But instead of the flashlight batteries we need so badly, a carton containing four bottles of rum. A general mess-up. The note from Brasby, who is being relieved by another EMH, with whom, apparently, he was having a party. The new EMH was brought from Samarai by the medical vessel HEKIAHA, according to Tinker. This vessel brought our cargo, the KEDELUPTIT having broken down. Only the batteries were supposed to come on the Kedeuma (to ARUKUAT, on the Morima coast); 4 dozen enamel plates (to replace plastic rubbish I brought in New York) & 4 bottles of rum were to be sent by the vessel due to pick us up at IAMELEKE on June 27. Sent on the Hekeha were a case containing 6 dozen plates & the batteries, & a carton holding the rum. Brasby gave Tinker the rum; the batteries are still at *Phopamoia*. Sat. June 16: Max. 23°, min. 18° C. Light rain with heavy mist from dawn to about seven; mist to mid-morning. No further rain. SE weather.

Tinker, having volunteered to go back to *Phopamoia*, departed about 8 AM with a letter from Lionel asking

that the boatmen & 1/2 day. plans to be extracted from the parking
can't wait back to camp with him. The HEKANA is
supposed to return to Tamarai tomorrow, & could drop
Timber at Hilewai en route.

Botanized down the crest of a spur by which an old
path descends in the direction of MIBUH. Some additional
from this last excursion for this mountain camp, mostly from
including the first fertile Euphorbia for the trip, also a
small tree of the Stratiaceae.

One small gray Rattus in traps. Nothing jacketed, although
Rus fired two shots before daylight. Kim, also out before
dawn, came across something in the forest which must have
been either a dog or Canis, but being a cook rather than
an accomplished hunter, he had no shell ready in his gun
& the beast got away.

Our 1953 employees, MIKO, & several children up
this afternoon from the Morima side to retrieve our 3
Morima boys of their Saturday tobacco issue. But we
are running short of tobacco & the boys were issued
only one stick apiece to give away, or with which to
buy betel-nut. One boy OALUWIMIT sent to
I am late this AM to get a fresh supply of tobacco
from one of our locked boxes.

Sunday June 17: Mon. 23, mm, 18 C. Frequent strong gusts
of SE wind last night, reaching Tel. Camp on
Goodenough Id. in 1953. Light rain with mist 5:40 to ca.
7:00. Sun & cloud ca. 5:50 after that.

Day devoted to drying collections & packing for
transfer to Elgamora tomorrow. Some other written.

One small gray Rattus in traps. Tim & Kim jacketed
last night for no results.

The strong south-easter will make landing difficult
on the exposed Morima coast. Another complication in the
battering situation.

Flora 229 plant numbers (including 48 bryophytes)
for this camp. A nice lot of orchids & ferns. Few
trees in flower or fruit. The only well defined major
communities are the oak forest in which we are camped.

1. The first part of the report deals with the general situation of the country. It is a very interesting and informative study of the country's development. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is easy to read. It is a valuable contribution to the study of the country's development.

2. The second part of the report deals with the economic situation of the country. It is a very interesting and informative study of the country's economic development. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is easy to read. It is a valuable contribution to the study of the country's economic development.

3. The third part of the report deals with the social situation of the country. It is a very interesting and informative study of the country's social development. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is easy to read. It is a valuable contribution to the study of the country's social development.

4. The fourth part of the report deals with the political situation of the country. It is a very interesting and informative study of the country's political development. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is easy to read. It is a valuable contribution to the study of the country's political development.

5. The fifth part of the report deals with the cultural situation of the country. It is a very interesting and informative study of the country's cultural development. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is easy to read. It is a valuable contribution to the study of the country's cultural development.

to which covers the crest of the backbone ridge just above camp. On the ridge top then the trees are only 30-40 ft. high & there is much moss on the trees & ground, especially in the hollows about the bases of the bigger trees, which develop short stilt roots. The rain forest occupies the water-place ravine, where an abundant *Antiaris* undergrowth (the common) is present. On the razorback crest of the higher parts of the backbone, to the east, the very mossy, shrubby forest carries much smaller leaved *Xanthophyllum* (a *Diospyros*) sp. as a subsidiary tree, but there are no oaks or beeches & the forest is perhaps a mixed rain forest of sorts. Two *Phellodendron* sp. (in fruit only) found in the very shrubby forest. Apparently the terrain above the oak forest is too precipitous & the ridge too narrow for occupation by either oaks or *Wolffia*. I found *Wolffia* on Goodenough & Tangunan Islands & I hoped to find it here. One of the best things botanically, is the fine *Stranvaesia* associated with the oaks on the crests of these ridges (mostly lateral spurs) & which go down the slopes to probably 2000 feet.

Including *Stranvaesia* from the Normanby coast, & other things brought in by native hunters, there are 62 specimens of species for the camp. (*Rattus* 12), *Siganus*?, *Melomys*, *Colobus*, *Macroglossus*, *Candiacus*, *Phalanger*, *Psittacus*).

The locality has been poor in insects. There was one rather good swarm night for moths. Very few butterflies were taken; only one big dryadula; a good lot of damselflies, mostly found in the forest far from water.

Traps have turned up well. Only one skink (like a sp. in the Normanby mountains) species found. The other lizards up at from a jacko packed at night. The snakes

Monday June 18: Heavy rain 11 AM to around noon, & rain was still falling when I left camp with my two boys to collect on the way down to AGAMICIA. Left the mountain camp 7:50, arrived Agamia 12:10, several small showers on the way. Heavy rain after all arrived (c. 2 PM - 3). Rain from 5 PM.

Good fortune was with us today. At 6.15 AM Tinker turned up with the 12 dozen batteries that have given so much trouble & travelled about 100 miles of travel; he had slept at UKECKEC & a young, strong man was with him. Eight Morima men & several small boys turned up a little later to assist in the carrying. With them, it was 20 from the AGAMOA villages, we had more than enough. (Had 30 loads, but somehow, they were carried by 33 people). The carriers were still arriving at Agamoa when GAGUMWA waited in with an 8-pound package of tobacco from IAMELELE.

Among the Morima men was HAOHOB1, our cook on the Fly River Expedition, bearing all over, but much imaged as if through a wasting illness. It is good to have these old boys of our turn up to say hello, & romance with our present staff about old times.

The journey down was only about 3 hours for a carrier. Feeling was bad on the steep slopes. I found more than on the way up. Had a lot of steps cut in the pale grayish soil of the main oak forest ridge. Much of the trail through second growth rain forest on steep old garden land up to ca. 1500 ft.

rain forest on steep, old garden land up to ca. 1500 ft.
Telling 18 plant numbers on way down, bringing the total for the
mountain trip to 247, then 283.
A few Uromyces, Conophtheca for 3/4.

One of the specimens brought a fine Uromyces, complete for 5/2.
The first we have for the island.

Tuesday June 19: Cloudy day, heavy rain between 2 & 4 PM. There was a short

Collected on a grassland patch of up to 100 acres
to have walk ca. 1/2 of camp, & at perhaps 600 ft. altitude.
Treeless ridges except for a few widely scattered Leptanocarpus
trees (11 in 6). Grass burnt in patches; mostly Rennetia, with
a sparse sprinkling of Antelia, Targuium, Phinaria, etc. A
little Impatiens in places. Herbs; Pinella, Thaumatococcus,
Stalagmia, Buckneria, Phytolacca, Carrion, minimifolia,
Trotetaria linifolia, etc. Low-lying moss-included. Is seen
from our mountain camp, there are several similar patches
in its neighborhood. Very hot on the open ground after two winters
in the mountains.

Lionel, jacking last night, shot 2 Canis, a Vulpes,
a Urocyon. Ran a Canis. Russ saw nothing. Lionel getting
up at 4 AM, bagged a wolf by on the grandstand point - I later
visited. Three Pogonomys brought from a native this afternoon
for a stick of tobacco pipe. ~~A~~ Tom Pipistrellus shot this
evening by Lionel & Russ.

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Wed. June 20. Cloudy on & off, but only very slight, brief showers. SE wind. Clear last night.

Ramped down the government trail to KHAH back then down the bank of the creek perhaps $\frac{1}{3}$ mile. Most interesting plant was an Cleistanthus, a genus I have only seen on the mainland before. All collecting done in rain forest second growth of the usual Macaranga-like species type. A big Ficus (labeled), conspicuous by its umbrella crown of delicate branches.

Leaving Tinker, left for KEDIDIT (GOMHA Bay, where Tinker & Gommell has a hot-spring coconut plantation) at 7:30 AM. Part of the long walk, partly to examine our proposed camp locality at DEIDEI, partly for exchange of news. Tinker has not had much physical exertion during the past two weeks, & he likes movement.

~~Tinker~~ Tinker, jacking results last night were one Pogonocherus, 3 Phalanger, 1 Petaurus, 2 Leptomys, 1 Macaranga. Tinker got 2 Macaranga, 2 Phalanger. Rins shot & lost a couple of things. One big brown Rattus in traps. The skinning, 1000 was somewhat delayed, however, by the loss of the 3 Pogonocherus purchased yesterday. Rins left them on his skinning table last night, & we doubt they were eaten by some prowling village dog.

The ~~day~~ day has been eventful in another way for the mammal department. Rins finds himself out of animal skins. Not a skinnick left. If he is not, where his supply is packed at Pamelala, he will have to go down there himself tomorrow. The journey there & back will be at least 10 hours of walking.

Rins has broken the Tinker coming. Had received word & rushed up with the shelter out of action.

Thursday June 21: Heavy rain from a thunderstorm between 11:00 & 2:00 AM last night. Rins for about an hour in mid morning. Thereafter mostly cloudy. SE (rising) tonight.

Rins, with GALUMINA carrying a basket & some sandwiches for him, left for Pamelala as day was lightening at 5:45. Returned at 6:15. Took 5 hours for the down journey, $\frac{1}{2}$ for the up. Is in fairly good condition though tired tonight.

With small boy IDAWAWAVETA, son of the local mission teacher, as guide, I went to Lake LAVU in the center valley of the island. It rained by rain, the down journey took $1\frac{3}{4}$

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hours. Collecting on the return journey made it 7 1/2 hours. Followed from the TUBERA trail at the foot of the grassland patch a bush track with many branches & on approach to the lake climbed over a low range of hills. Reached shore on E side of lake, where people from this part of the country have a fishing camp. Then steep - to. On a point of land ca. 1/3 mile to W. was a native hamlet & in front of it a small outrigger canoe on the bank. Throwing of women there. Then apparently away at the garden (a lot of activity here now in clearing new ground).

Was impressed with the efficiency & complete harmony with the environment of my small guide. Half hour or so from the lake we passed a new garden house occupied by a woman & two children (one of whom went back when he saw us). Here the small boy procured a firestick. At the lake he started a smouldering fire under the shelter, found somewhere a part of lime & a hook, picked up a pole on the bank, & in no time had ~~caught~~ caught a fish. By 11 o'clock, when I called for rice to be cooked for the boy's lunch, & my tea fully boiled, the young man had the fishes of small edible size. He offered my very choice. I took three of two apparent species as specimens. The rest he killed by beating with a stick, then dropped the string on the fire. The bait was a small, pale shrimp caught in the roots of the "water lilies" (*Pistia stratiotes*); I have 13 as specimens, plus 18 small damselflies from the grassy shore.

A disappointing day botanically. I expected a lot of waterplants. Got only ~~four~~ four (*Pistia*, a white *Timonanthemum*, an amphibious *Cyperus* & a remarkable amphibious *Simpsonia* 2 m. tall with very thick 3-angled stem.) Then too deep & water too deep where I was. All second growth rain forest from the grass patch to the lake. Some big *Albizia* trees on the flat lands of LILAI track. Soil sandy here.

In water birds I saw only a medium-sized grey heron & a pair of jacanas. No sight of a crocodile which are said to be very plentiful. Lake appears well stocked with fish. Noisier. Rock of the steep shore looked like a schist.

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At the two mist nets beside flowering Rapese trees in the village, hoping for small flower-eating, etc. One so far several nights when Papia trees fly near the mist nets has yielded nothing. The paper fly around it as they would a boy's stick. Rapese is a medium brown.

Friday Jan. 22: SE weather continues, more or less withy. Rain enough last night to stop jacklight hunting. About shower between 1:00 & 1:30 PM.

Collected in primary rain forest (the only area I have seen in the night forest) down the track towards the grass patch for nine species including a cylindrical-fruited Santanderia which looks like one I collected at WAMUWUWU & one at IAMELELE. A splendid red-backed Wormia is plentiful & very conspicuous, but sterile. Some few other trees of first magnitude are present.

A Macropygia is a Leucis, plus a sunbird & another small bird in the bush early this morning. Nothing in water last night. Jacking by Kim & Liki like spoiled by rain.

Lionel returned about 4 PM from KEDIDIA, a ten-hour walk. Report good travel is gradual ascent through the SAKAKADI country to the Salama River divide. Salama River population extends about 1 hour past the divide, then 7 hours travel through uninhabited primary forest. Over the stream crossed 16 villages en route.

Lionel reports an outbreak of something which is killing the fish in the seas off eastern Papua & from Goodenough Island east a south through the L'Etrecas. All residents on the radio circuit have had official notices about it. Official opinion is that the cause might be seismic, or biological (i.e. "red tide" of Florida). Tox: Volcanologist. Taylor reported on his way to investigate.

Most of our boys spent last night at a big feast & dance at one of the TUTUBEIA villages, 1 1/2 hours walk from here. Lionel, who passed through the village this PM, reports a big affair with hundreds present, a great show of pigs, root foods, & bird nests. The climax comes tonight. Tutubeia appears to be the beginning of the Salama country. Here at Ogamoria the affinities are with Tagululu.

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Sat. June 23: No rain last night or today. Some thunder & dark clouds up valley in afternoon.

My last day in the field here. Went up the mountain track to where it branches left to villages, then splits again. All second growth forest beyond the road fork. It was of primary forest in a gully yielded a few interesting trees including two of Ficus — one with shining Tournefortia-like receptacles.

Despite poor collecting, I have more material than I can carry with the one van I have with me. Am continuing to collect in series of nights when the material is available.

Ran short last night a Polanthes & a Gobsonia. This afternoon the Lionel visited a cave about a mile N down the slopes from camp. I collected two Gobsonia & 8 Rhipsioides ceovines. Cave is under a brownish-shaped waterfall, about 40 ft high, to the E of the grass patch. Tried to go in ca. 60 ft & have three short branches. Entrance in water waist deep. Rock said to be a sort of conglomerate. Name of cave MTS NIBOTAH.

Sunday June 24: Again no rain

Early plant collection & picking up friends for transport to the coast tomorrow. Have 82 numbers 500 short of specimens for the camp. It poor quality for me. Most of the forest is second growth.

A Wallaby & a white-tailed Possum shot last night by Lionel. Lionel, out jacking, confined his attention to bats, & got nothing. Boys, sent to the bat cave this afternoon, returned with 10 more Rhipsioides.

Gave boys time off this afternoon to attend church. Service held at regular time, but when the congregation assembled from outlying villages some metal object is banged as a signal. Other missions I have seen, at Pamalele & Thibela, have 10 drums.

Monday June 25: Back at Imelele I. Had a good fine day for the transport. I left Agamoia at 7:20 with the intention of botanizing on the road and, lunching on a small stream about an hour the other side of Pagilulu, arrived at Imelele at 3:15. Bus passed me on the road and arrived about an hour earlier. When I arrived the carriers were just beginning to come in and drop their loads — 32 of them. I traveled by the Pagilulu-Miubuvo road; the carriers and Lionel by another road which went first to Lake Laru then down the flat lands of the valley via Imelele #2. This road muddy in places and the distance much greater than by the hilly Miubuvo route. Lionel had more people (Agamoia area) offering to carry than he had loads. He left Agamoia at 8:20.

Everything left at the Imelele recthouse (in charge of the VO) appears to be in good condition, and intact. The VO is not a person who has inspired confidence, but he was the only man to leave in charge of our cargo.

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15 21

Tuesday August 14: A heavy rain squall from the SE delayed our departure from Bwagaia until 8:40 am. Eric Ryan is not a seaman and is rather timid about his boat. The "Titan" is a 40-footer, sloop rigged (she at lease carries a jib), and has a new 40 hp Ailsa Craig engine. One bunk in the wheelhouse aft; no accomodtion for passengers. Ryan uses her as a trading boat, picking up copra and shell, and selling manufactured goods. Has a big stock of trade on board this trip.

Had a rather rough passage on the open water past the Renard Islands and until we passed through the barrier reef of the Calvados Chain. This was at 1:30. At 2:25 stopped at the big island of Pana-wina to set down a native passenger at Bunting's coconut plantation. At 4:05 anchored at small Nigahau Island to trade. I went ashore. Some goods sold for cash and bags left to be filled with copra which Eric will pick up on his return journey. Very clean village with about 20 houses. Houses quite big as a rule. A government resthouse and a new RC church, the latter still unfinished. The mission has a native women teacher here. The resthouse used as school. Several big built-up canoes on the beach; painted white. A number of Japanese green glass fishing floats in the village. Left Nigahau at 4:45 and anchored for the night at Grassy (or Wanin) island. Slept in the government resthouse on NW end of the island. Sandflies bad; big old megapode mound at resthouse; megapode calling at night.

Wednesday August 15: Left Grassy Island 7:15 am. Village on north end of island, close to resthouse, has several old-style hog-backed houses. Gardens being cleared and burned in relic bit of rain forest in gullies on the slopes. Passed along the south coast of big Pana-tinana or Joannet Island. Good forest cover on the west end of this island. All the islands of the Calvados Chain are hilly. Much grass on some of them; secondary condition following deforestation for cultivation. Looks like the dry season for these islands; numerous smokes from grass fires; many patches of newly burned grass. Reason for burning the grass not plain; there are no wallabies on the islands. Anchored to look for trade off a small village near Son-of-a-Bitch Point on Pana-tinana. A good bed of gold-lip pearl shell here, in 18 fathoms, and a number of lives have been lost in diving for it. Hence the name of the point, which seems to be Utana Point of the chart.

Anchored at Nimoa at 9:55; headquarters of the Catholic Mission in the Louisiades. Good buildings; very well kept. Father Twomey, the one priest stationed here, was away in Samarai. Brother King, very young, clean looking Australian from Laverton, Victoria, temporarily in charge. A convent with three European sisters, whom we did not see. Big white statue of Christ on the cross, and a flower-bedecked grotto of the Virgin. Brother King offered us rum and water. We had morning tea with him- nut bread and pretty little cakes and iced cookies. Mission has electric light and a boat. About 170 boys and girls in the school, which is now out on holidays. Mission has big food gardens on Sudest, across a couple of miles of water to the south. Our call at the mission was largely to arrange for cargo from Samarai to be dropped there for us, and for making an arrangement with the mission to forward the cargo to us in their boat.

2

Left Nimoa 10:45, passed Griffin Point at 12:45, anchored at Joe Landing at approximately 1:30. A good resthouse at Joe Landing (proper name, Inagailau), and from it a track crosses the island, close to Mt. Riu or Rattlesnake, the highest peak (2645 ft.) on the island. A village policeman, one Bom, here. Genial man of middle age and small stature, well covered with sipoma. Remembers the time when (about 1914-15) one of the Eichhorns went in from Bowla village and spent a week on the mountain. According to Bom, Tommy Craig was with Eichhorn. Bowla village, perhaps 2-3 miles east along the coast, is no longer in existence;

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according to information received at the mission; a new village, Areda, has been built, about half-way between old Bowla and Joe Landing. Room enough in the resthouse for the three of us to live, for storage of all our gear and supplies, and for Bus and I to work.

Had news on the radio that the scow "Kari", on which we traveled from Samarai to Dwagaia, was wrecked about ten days ago on a reef in the Egum Group and is a total loss. Crew and passengers (2 Europeans included) were all picked up by the "Muniara" on the 13th. The Kari was bound from Woodlark Id. to Samarai. Ours was probably the last trip she completed. A vessel inadequate for the job she was doing; her native skipper seemed competent enough but seemed to allow his crew to make decisions for him.

Thursday August 16: SE wind still blowing, but here on the lee shore of the island we are sheltered and get only a cooling breeze in the rest house. Some cloud but no rain.

Boys rigged the drying units and made a work table of sago midribs and later joined me in some botanizing west about $\frac{1}{2}$ mile or so to the mouth of a small creek. Shore fringed with mangroves 20-60 ft high: Rhizophora, Bruguiera, Avicennia, Carapa, Heritiera, etc. but not a mangrove seen fertile. The crab-holed mud gray and clayey and containing much broken white quartz. Shingly gravel in creek apparently mainly shale. Entire-leaved, white-flowered Acanthus forms thickets up to 2 m high where rain forest joins the mangroves; Asplenium aff. pidus also growing there in large pale clumps on the muddy ground, where there was also a common tree-fern (Cyathea), and a hepatic on the ground. Some unusual occurrences for a subsaline habitat. A big Entada climbs to the tops of the trees in the ecotone.

The gray soil along the coast is dry and hard. Evidence of this being the dry season. Village rich in - or infested by - pigs (mostly spotted and of fair quality) which must foul the place badly in wet weather. Only a small village of eight houses including the rest house. Our boys sleep on the ample porch of the house of the VC's younger brother. Front row of houses built right on the water's edge among tall coconut palms. Most of the villages seen on this coast are back from the mangrove coast and 100 feet or more above the sea on the frontal line of ridges. There is a gap in the mangrove fringes, a couple of hundred yards long, at Joe Landing. No sandflies or mosquitoes have attacked us so far.

No traps set last night. No shooting; this to give a chance of a shot at a big crocodile said to be in the habit lately of crawling up under the houses during the night. This croc not afraid of the natives, and will not be hunted away by them. For several hours Eric (who decided to stay at anchor here to trade) and Lionel crocodile-hunted with dinghy and headlamp along the coast to a big creek about a mile to the east. They saw nothing. Tide perhaps too high, they thought. Alec shoots for their skin any crocodiles he comes across. An average skin worth about five pounds.

A little black-lip shell dived for on the reefs here. Eric pays sixpence a pound for it if of good quality. He also buys small quantities of the Sudest gum. This, said to be gathered mostly by the women, who pick it from the bases of the trees or the ground below the trees.

There is on the gravelly beach a big new white-painted built-up canoe which I asked Bom about this evening. It was bought from Booker Island by a rich native who lives in the hills above us. (Like dim-dims, says Bom, some natives are rich and some poor). The price paid for this canoe was five pigs, 200 lbs. of sago,

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20 baskets of native food, and 40 pounds in money. These people have trade with Booker Island. From the Bookers they buy or exchange cooking pots for sago and baskets which the women make. There is also trade with Rossel, the red coconut parrot (and perhaps other species) being traded for bagi (shell money). For a parrot the Sudest people can get a string of bagi worth up to about six pounds. Pigs also traded to Booker Id.

Lionel shot this ~~xxxx~~ ternoon four blue pigeons which provided us a really excellent meal of soup, breast steaks and wings and legs. Mostly the cook overdoes fresh meat. This evening I gave him the ample leftovers to eat and savour, so that we may hope for a repetition of this evening's success.

For some reason which I donot know and have not inquired into, the white traders, I am informed by Bom, are not interested in buying gold from the natives of the island. Gold is to be had in "plenty," says Bom. They can't sell it, so don't work the streams for it. All the traders ask for is copra, shell, and gum. In Samarai I saw recently in the illicit possession of Fred Riley an estimated 1 oz of good coarse gold which had been bought on Sudest at 6 shillings a pennyweight the regular price according to Fred. Gold buyers have to be licensed and declare all their traffic in the metal. Riley was drunk and spilled about half of his gold through Buntings back steps.

Friday August 17: Heavy rain from 4:30 am to about six; drizzle until about eight; sharp ~~xxxxxx~~ shower about 11 followed by drizzle. No rain afternoon or early evening. SE weather.

Lionel was to have started this morning on a reconnaissance of Mt. Rattlesnake (or Riu) but the councillor who was to be guide, and the carriers, did not turn up. He is ready for an early start in the morning.

Botanized inland to a distance of a mile or better by a good track which climbs quickly up a kangaroo-grass spur from camp. Reached an elevation of perhaps 400-500 ft., which I have called 100 m. or the plant lablos. Forest in the gullies on both sides of the spur. Secondary at first. Later primary forest relics from which I collected some good trees (Syzygium, Parinarium aff. nonda, Fagraea, Weinmannia, Buchanania). A good soft cover of Themeda, about knee high or less on the open ridges. Collected an Ophiusus? and saw Sorghastrum and Eriachne? in grasses. Accompanying herbs practically identical with those of Fergusson and Misima. Pimelea, Euphorbia (Chamaesyce), Phyllanthus, Borreria (not previously collected), Osbornia, Hypoxis, etc. A small shrubby snapdragon fig scattered on the grassland ridges as a shrub.

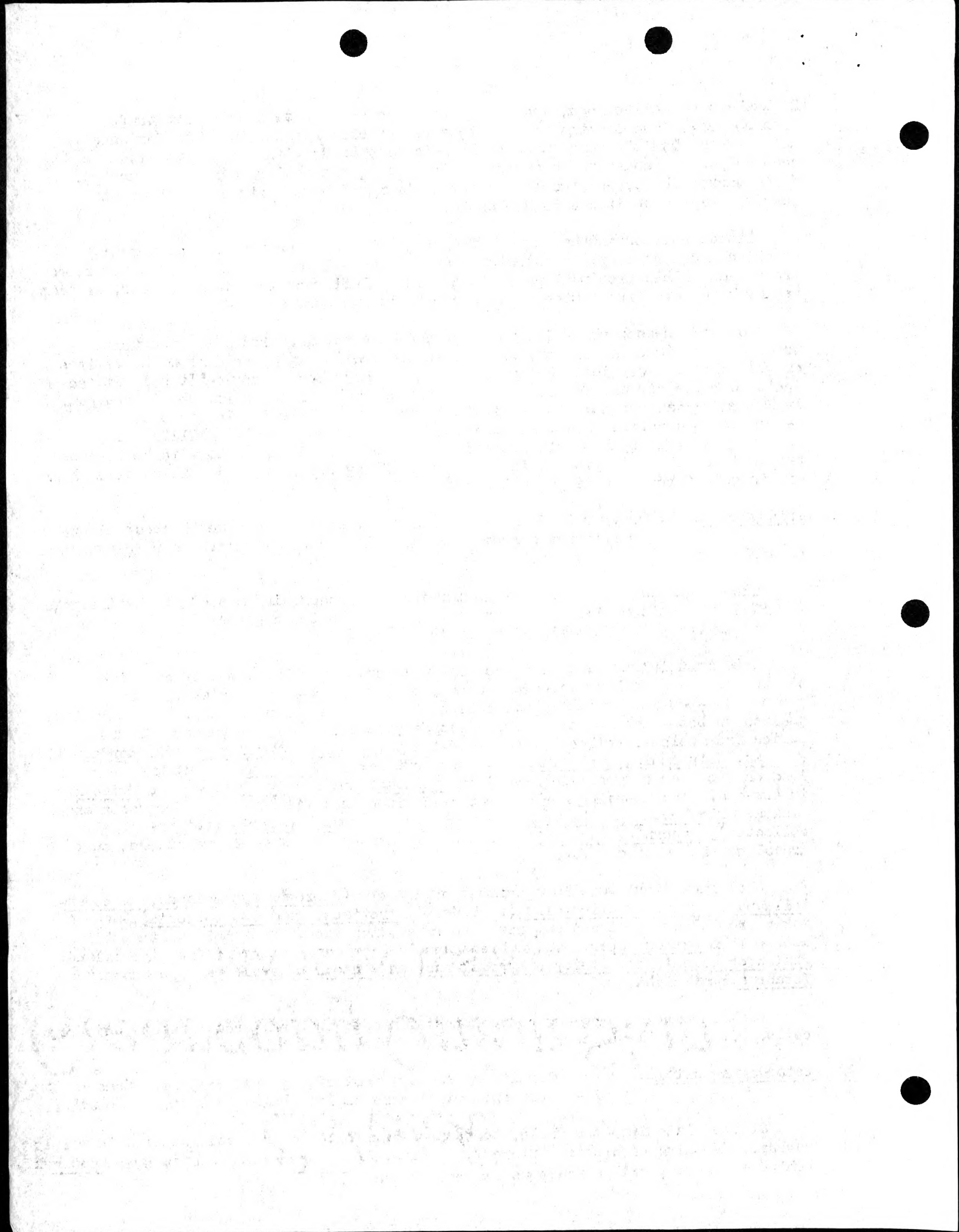
Shot last night were 10 specimens of mammals (Pteropus hypomelanus, P. conspicillatus, Phalanger orientalis (very dark), Nyctimene geminus, Dobsonia), and taken from about 130 traps out were two rats which except for their white bellies looked like Rattus ruber. Only three mammals previously recorded from the island: Phalanger orientalis, Pteropus hypomelanus, and Petaurus brevicaeps. We heard the Petaurus last night.

Work on camp rigging and conveniences finished this am. Some insects and frogs collected. A spell of poor weather for field work.

Saturday August 18: Heavy intermittent showers most of day from 6:15 am. Some sun in mid-afternoon. Still more or less rainy tonight. SE weather.

Started late into the field, to east of camp along coast, and gathered in all 15 numbers. Nothing of special interest, perhaps. A common Pandanus of flowered ocean hush behind mangroves, with syncarpous drupes. A small Urtica.

*Pandanus of open places
A green flowered*



58 94

Psychotria

A rubiaceous small tree which comes close to Psychotria, but is strange to me.

Nothing in traps last night. Two Dobsonia and a Nyctimene shot by the cooks. Rus, complaining of being tired after a day at the preparations table, went to bed. Lionel has a poisoned foot. ~~Tonight, Lionel is out in the rain forest.~~
~~Rus is reading the book.~~

Two natives went fishing this afternoon and from them we bought, for two sticks of tobacco each, two fine big green-mottled crayfish which seem to be have the local name BAGIA, and two somewhat reddish fish, bought for one stick the pair. Ate as much as we could of the crays this evening. Kin, as he is apt to do with anything not handled every day, made a mess of the meal, cooking it too early and serving it cold. Four blue pigeons shot yesterday. What with excellent pigeon soup, and quite good tenderized pigeon meat, and today's seafood, we are doing well off the country. We are getting only a few sweet potatoes from the native gardens. This seems to be a time of shortage. The ground was dry when we arrived here. Bom says the crops were suffering, and that the present rain was achieved by sorcery.

As was anticipated, no carriers for the mountains turned up today. A start by Lionel tomorrow is possible. The people in the inland village, where the councillor lives, are Methodists and will not stir on Sunday. The Joe Landing folk are Catholic, however, and Bom says the young men will carry if the weather is fine. The guide will have to be the councillor from the inland village, who alone seems to know the way to the top of Riu.

Sunday August 19: A lot of strong SE wind during last night. Fine this AM until about 10 O'clock, when drizzles began, clearing late in the afternoon.

Lionel unable to get away again today. This is contributions Sunday for the Methodist Mission. Native adherents have gone to give money and garden truck to the Tongan head teacher, or whatever he is called, who lives at Ramburo and yesterday went to a village west a few miles along the coast to do the collection.

Worked inland up the track to a distance approaching two miles from the sea and altitude estimated at 150 meters. I omitted to record that a week ago today, "Drunkon Sunday" in Bwagacia, when the young government officers left for Samarai with 2 dozen beer and 11 bottles of rum for the two day voyage, Fitzer threw our aneroid into the salt water at the wharf. I still don't know how Fitzer came to have the instrument. No native would dive for it. So Lionel went down in 5-6 fathoms and brought it up. The aneroid is now on the way to Australia for reconditioning.

A good day for mammals. Nothing in traps. Two or three Nyctimene shot by Lionel last night; a big Pteropus by Rus. The spare boys, out this morning some distance inland in the primary forest (?) got a very different looking adult Pogonomys and a half-grown young one. Body short, tail long and heavy, feet very big. Must be a new species. This evening Lionel shot at dusk a russet Miniopterus new to the collection, unless it is a color phase. This makes 8 species for the camp to date. Not bad for an area largely deforested.

Learned this morning of old gold mining tunnels in the lower mountains, made by Tom Morley before the last war. Rus went up to the inland village this afternoon to arrange for an excursion to the tunnels Tuesday. Two inland villages seen by me this AM. Visited only one, Erinamoia, where the councillor lives, c. 1 1/2 miles inland and at about 400 ft. Clean place of 15 mostly big houses.

Botanized mainly in relic strips of primary rain forest left in the gullies.

CONFIDENTIAL

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FROM: [illegible]

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CONFIDENTIAL

Apparently a strong endemic element, also a considerable number of species which I also collected on Misima (white-flowered Proteaceae, Symplocos, Nepenthes mirabilis (without mousey odor). Found on the grasslands a Velloia (Goodenoviaceae) a genus I have only once collected hitherto in the new Guinea - west of the Fly River. Picked up the fruit of a winged dipterocarp which I could not otherwise discover. Different from the tree of the Misima mountains (fruit much smaller).

Monday August 20: A scud of rain at dawn (5:45); others through the morning. No drizzle in afternoon; Rus had his mammal trays on an outside drying rack.

Lionel at last has left for the mountains. Got away at 7:15 with 3 carriers, 2 spares to cut track, and the councillor as guide. Probably he will strike wet weather above about 1500 feet. The SE continues, piling clouds on the mountains.

A backlog of plants which I did not have time to prepare yesterday, kept me in camp until nearly 8 o'clock. Then went along the coast, west, for rather better than 2 miles. Collected 17 numbers; some of them still on hand, as I have run out of driers. This seldom happens. Have averaged 16 numbers a day for the camp. Not bad for an area largely deforested and occupied by migrant grasses and associated herbs few in number. An unexpected find was an Antidesma (probably A. ghaesebroukii) which I don't remember seeing this side of the Port Moresby Grasslands (it grew on grassy edges of the mangroves).

Nothing in traps last night, although one or two new lines were in operation. Last night Rus jacked a Dobsonia and a small Pteropus. Six Myctinene were caught in a net set at a fruiting Jambosa tree within a few feet of the reathouse we live in. Today Tubuka and Somp Sipoma brought in 5 Pogonomys out from trees, and VC Bom contributed two more. This Pogonomys is a beast very different from those we got in the D'Entrecasteaux. Has a skull squarish on top, and three lines of cusps.

Our Glossiagos give evidence of being happy on Sudest. They have been singing for hours in their quarters this evening.

Tuesday August 21: No rain in the 24 hours. Mountains (Riu) clear till at least midday. Natives are burning the grass again after the rain.

Botanical project of the day was the collection of the tree from which the "gum" of the island is collected for export. Had VC Bom as guide. Came upon the trees in primary rain forest of the little valley of Vulanitu stream, about 2 miles inland and altitude of 400-500 ft. Vatica sp. probably papua, called Guimbur by the natives. This produces a reddish gum (so described by Bom) which is the chief product sold. A whitish gum (no doubt a resin) is obtained in small quantity from a dipterocarp with winged fruit, called Waloi (said by Bom to be called Rul on Misima) which occurred abundantly in ridge forest further inland. This dipterocarp as plentiful or more so than any other tree in the forest of the ridges, which have only fair timber volume. A common larger tree is the Syzygium I collected on Sunday. The Vatica where I saw it was the commonest canopy ~~tree~~ but small (about 20-25 m tall x 30-40 cm dia.).

Rus, with a guide and two or three hangers-on from Erinamoia village, made a 7-hour excursion to a mine tunnel much farther S or SW said to have been made by one Manning. A well dug tunnel, according to Rus, which went in a long way, but could not be entered far because of deep mud and water. Literally thousands of bats flew out when a shot was fired into the tunnel. All Miniopteris, but in two sizes and probably two species. About 30 collected with switches outside the tunnel.

SECRET

Lionel returned from the mountains at noon - unexpectedly early. With good travel, he reached a camp site in the forks of a fair-sized creek at an estimated 1000 feet, at the foot of Mt. Rattlesnake (or Riu) in $3\frac{1}{2}$ hours from Joe Landing. From there climbed nearly to the summit of the mountain, past Eichhorn's reputed camp site of 40 years ago. This took $2\frac{1}{2}$ hours. No water near the Eichhorn site. A good second site for a camp on the track about 400-500 ft. above the creek, on the crest of a broad ridge. Mossy forest conditions not encountered anywhere. Description of the second camp site appears to indicate oak forest, and Tinker carried an acorn back in his pocket. Rather disappointed in the report. We will not be able to camp as high on the mountain as I hoped. The summit area should be attainable for botanizing from the second camp site. Altitudes are, of course, estimated, now that we have no aneroid.

Had my first sight of Riu from Erianoida village on the way into the field this morning, and another view from a mile or so further inland. It would be an exaggeration to call the peak a Matterhorn, but it is steep towards the summit and very limited in area. Viewed from ca. NW there is a side pinnacle a few hundred feet from the summit; Eichhorn said to have camped in the saddle between the pinnacle and the main peak.

Have send out word for at least 35 carriers for early Thursday morning.

Two native sailing canoes from Grassy Island put in at dusk to spend the night at Loc Landing. Said to be on a sago-making expedition. Canoes each with 5-6 people on board (men, boys and women); rigged with a lug sail (European material).

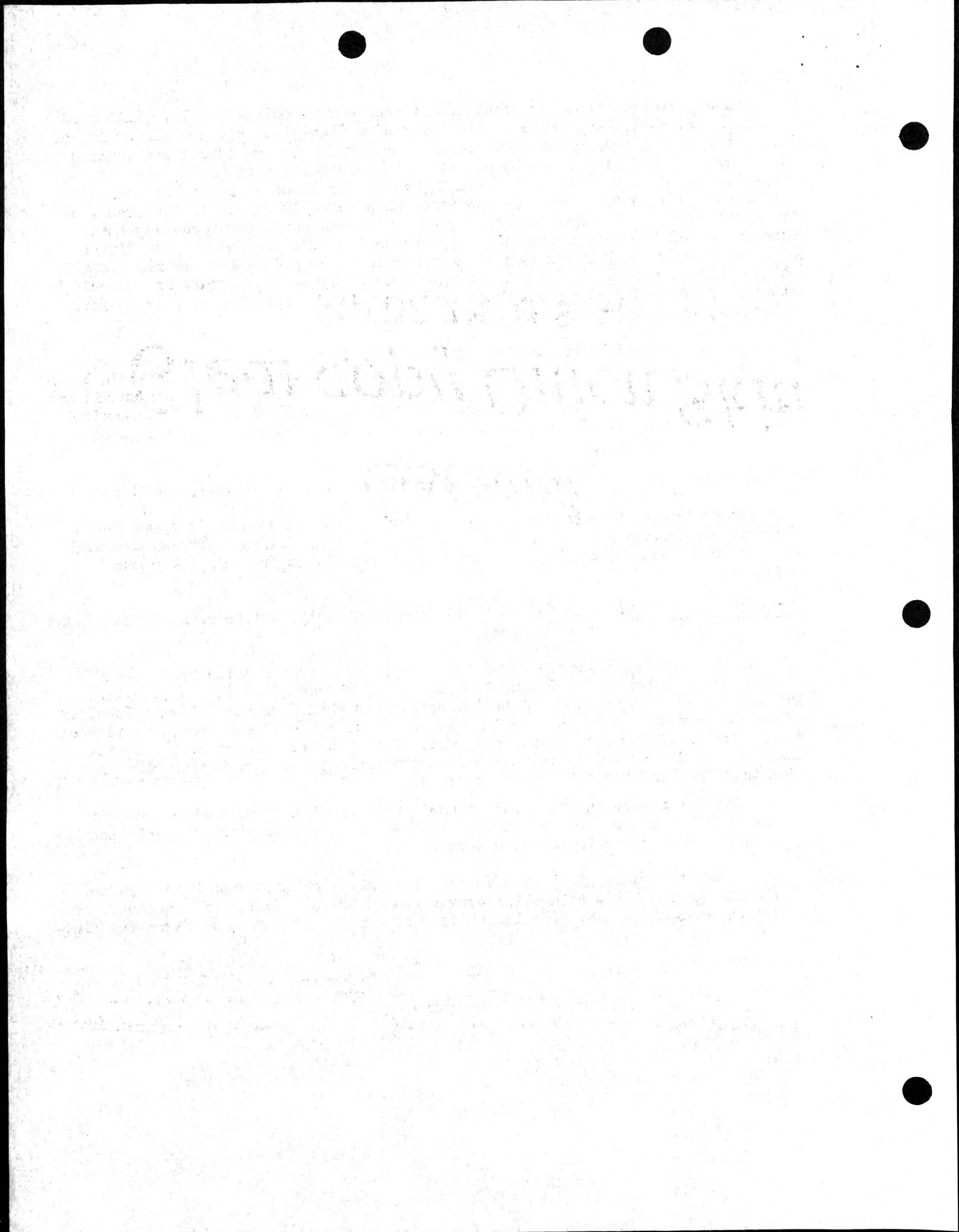
Wednesday August 22: A lot of high thin overcast today, but no rain. Strong SE wind at times.

All busy with preparations for leaving for the mountains tomorrow. Joe Landing has yielded me for 6 days 103 numbers of plants (7 of them bryophytes) and 603 sheets of specimens. A better collection than I expected from a locality largely deforested. The relic rain forests in gullies on the slopes have yielded a good number of trees in flower or fruit. This has been the poorest camp yet for insects. Hardly anything most night from the light trap. Few butterflies and odonata. The best yield has been in spiders. Eighty mammals taken, 2 or 3 spp.

For the second day in a row, Lionel spent about an hour on the reef with his fishline and a borrowed canoe. Another good meal of fish; the only one I know of four spp. being a red emperor.

For the second night we have been listening to U.S. Armed Forces radio reports on the GOP presidential convention in the Cow Hall, San Francisco. A lot of hoop-lá so far, with indications of a fight coming up on Nixon for Vice-President.

There is probably a correlation between the number of insects seen at Joe Landing. Only three insectivores (2 of two spp. were seen at dusk, and one, a Minicaphus, shot.



Thursday Aug. 28: Good fine day, though considerably high overcast.
 It wasn't when we are on the move, the weather
 was fine but conditions not favorable for color pictures.

Left Joe Landing for Mt. Rin at 7:35 AM with 38 carrier loads. People in good fells. Some came from as far as Griffin Point last night, either to be in the show, for the pay, or perhaps because of word of our coming being spread by M. L. of Diego Garcia while on patrol at the time of our arrival on Minime. Had with us, besides the carriers, 5 councillors & a village policeman. Crossed VUKUNITU Creek at 8:30. (In the cannibal raiding days, at the time of the present elders' grand father, the Joe Landing people, returning from forays to the slopes of Mt. Rin & then about, propped up their dead victims on a chain-like ledge of rock on the ridge of the creek, faces painted & looking back up the track, having a last look in the direction of their country). From there a steady climb of perhaps 500 ft. to crest of the central divide of the island, reached at 9:10 after a 10 minute rest at the last water. Difficult to judge altitudes; track in dense primary forest; but altitude of crest perhaps 1500 ft. Travel up & down along the top. Rest of 15 minutes when the track began to descend rapidly to the valley of a fan-ringed creek. Reached the creek at 11:05. Timet camped here on his runaway trip. Altitude estimated at 1000-1200 ft. Creek called ESILAYA. Had tea & good beefy bully beef sandwiches with Timet, who reached this spot half an hour before me. Then on up a nice steep ridge in the direction of Rin for 20 minutes slow walk to an alternate camp site selected by Timet. Decided to camp there. Altitude perhaps 1400-1500 ft. Good site on a small knoll with a little stream of running water handy. This the best water found ~~at~~ by Timet on his recent trip. Altitude too low, but the best we can do. Still in a ringed rain forest. Saw no oaks or Castanopsis. Much Valeria in valley of the creek where Timet camped. Champas take place in the forest but it is hard to define them or to recognize characteristic trees. Very little seen in flower or fruit.

Clearing the camp site this morning, have a fly in the two tents rigged, plus a cookhouse roofed partly with bark & partly with palm leaf. Palms are scarce on the crest except where there

1944

1. The first part of the report deals with the general situation of the country and the progress of the war. It is a very interesting and informative account of the events of the year.

2. The second part of the report deals with the economic situation of the country. It is a very detailed and accurate account of the economic conditions of the year.

3. The third part of the report deals with the social situation of the country. It is a very thorough and complete account of the social conditions of the year.

4. The fourth part of the report deals with the political situation of the country. It is a very clear and concise account of the political conditions of the year.

5. The fifth part of the report deals with the military situation of the country. It is a very comprehensive and detailed account of the military conditions of the year.

6. The sixth part of the report deals with the cultural situation of the country. It is a very interesting and informative account of the cultural conditions of the year.

7. The seventh part of the report deals with the scientific situation of the country. It is a very thorough and complete account of the scientific conditions of the year.

8. The eighth part of the report deals with the legal situation of the country. It is a very clear and concise account of the legal conditions of the year.

9. The ninth part of the report deals with the administrative situation of the country. It is a very detailed and accurate account of the administrative conditions of the year.

10. The tenth part of the report deals with the financial situation of the country. It is a very thorough and complete account of the financial conditions of the year.

11. The eleventh part of the report deals with the health situation of the country. It is a very interesting and informative account of the health conditions of the year.

12. The twelfth part of the report deals with the education situation of the country. It is a very thorough and complete account of the education conditions of the year.

13. The thirteenth part of the report deals with the labor situation of the country. It is a very clear and concise account of the labor conditions of the year.

14. The fourteenth part of the report deals with the housing situation of the country. It is a very detailed and accurate account of the housing conditions of the year.

15. The fifteenth part of the report deals with the transportation situation of the country. It is a very thorough and complete account of the transportation conditions of the year.

16. The sixteenth part of the report deals with the communication situation of the country. It is a very interesting and informative account of the communication conditions of the year.

17. The seventeenth part of the report deals with the energy situation of the country. It is a very thorough and complete account of the energy conditions of the year.

18. The eighteenth part of the report deals with the environment situation of the country. It is a very clear and concise account of the environment conditions of the year.

19. The nineteenth part of the report deals with the population situation of the country. It is a very detailed and accurate account of the population conditions of the year.

20. The twentieth part of the report deals with the foreign relations situation of the country. It is a very thorough and complete account of the foreign relations conditions of the year.

62 58
v. 1990. Carman said I went home about 2 o'clock; 4. per load,
sp. rack for the councillors & V.C.

Friday Aug. 14: Fine day but considerable heavy cloud from
about east. The wind at camp comes up valley
from the west.

Mt. Riu, on direction indicated by Liang, lies 105°
magnetic from camp.

Camp rigging practically completed. In the general
pattern of events, we leave one boy off duty today with a swollen
groin, as a result no doubt of yesterday's walk. Another
boy with mild malaria - cooler climate.

Gathered a few plants around camp. Made color-
photographs of white & purple Senecioium # 27811, collected
on the trail yesterday.

Were visited by 3 men from HULA village on the S.
coast. They want to work for us. We might get carriers
from the south coast for our return to Port Harding.

Woke traps out last night. No jacking.

Saturday Aug. 15: A shower woke me at 3 AM. Then
rain at dawn & after; then sun about
in hour 1-2 PM.

Nothing in the few traps set last night. Liang
& Ren out jacking for a while. Liang fired some shots
but got nothing. Two Pogonomys & 2 Petaurus cut
from trees by the mammal boys. Litz-Litz & Double.

Thomson kept me in camp until 7 AM. Then AM,
when I set out for Mt. Riu. Followed the pig-hunting
trail which was Liang's route a few days ago. It
went ca. ^{East} for 10 minutes & perhaps 200 ft. altitude, then
swung sharply to north along the crest of a main lateral
ridge, rising several hundred feet to the now hardly
recognizable rim of old SIMIMABATA village. Then about
east again, more or less straight for Riu peak. Reached
the end of Liang's cut track at an estimated 2000 ft. But
track for 1½ hours from there I reached what appeared to
be the lower sharp crest visible from near Trinamirua.
Thence then climbed momentarily to give me a glimpse of
the true summit, about ½ mile to the south & 200-300 ft.

Enclosed please find

EX-100

Very truly yours,
[Signature]
[Name]
[Title]
[Address]
[City]
[State]
[Zip]

higher than where I stood. Some sand covered my small crest: Talepophyllum, Metastomum, Physocarpus, broad-leaved Timonium. At Lami's stopping place I collected a fine, fragrant white Rhodesia growing as a slender shrub in low sand edging a precipice. This altitude seemed to mark the limit of a big Lacrydium abundant for 300-400 ft. lower down. Gathered in all about 10 spp. of orchids in flower including 6 Leiodactylus. One of the dendrobiums is the big spotted white sp. of Missina. Dist. rain, & track cutting hampered my collecting. Got back to camp, wet under my rain-coat, at 3 PM.

Fine, stormy night. Only two boys out jacking.

Tomorrow, weather permitting, will finish cutting track to the top of Pic. Lamenau. About 2-3 hours cutting from my highest point, I estimate.

Sunday Aug. 6th: Overcast most of day; no rain. Had to spend about two hours in morning waiting for brief spells of sunlight to photograph some of the plants collected yesterday. There is always the problem of cloud & wind in clear-cut photography.

Spent the day in camp, making pictures, & preparing yesterday's gatherings (38 numbers). Included was a small, yellow-stemmed, very slender Calamagrostis, the first of the genus I have collected in the Tomisiodora, & apparently identical with a species of Normandy Island. Saw a much larger species on the mountain yesterday. No Calamagrostis seen on Missina. The Tomisiodora are very poor in palms.

Nothing in traps last night, nothing shot. Rain, jacked for 1 1/2 hours tonight, for no result.

Today Lami took four boys & finished cutting track to the top of Pic. Lamenau. About 1 1/2 hours cutting from my last point. Trade not too bad.

Since the day before we left for Tanchang, I have had trouble with my left shoulder. It might be rheumatism, & a coincidence that it is in the shoulder I dislocated on Mt. Dayman in 1913. It could be something else. I have not had rheumatism before.

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UNITED STATES

OFFICE OF THE ATTORNEY GENERAL

WASHINGTON, D.C.

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Monday Aug. 27: Some showers in morning & a slight one at night fall. Peak of Rio under a driving mist all day.

Left Rio (Pollenoke). Left camp with my two boys at 7:20 & returned at 4:10 - nearly nine hours without food or water. A difficult mountain for its altitude. It is steep to the south that climbing from there would be out of the question. It rises from the west off a what looks like a good approach from HINAI Bay. The ridge to the SSE (continuation of the backbone range) appears to be very narrow & up & down. I caught only partial glimpses of it.

I had doubts about the weather when I left camp. At 9 o'clock, when I was near the 2000 ft. level, rain began & for 30 minutes we sheltered under a pocket cloth carried for the purpose. Decided to turn back, & started to collect. At 10:10 the weather looked like taking up to a resumed the ascent - it is too gradual most of the way to be called a climb. Reached Lion's Lookout at 10:15 (no view at all from there on way up, but fine panorama of HINAI Bay (?) on way down in afternoon). My far point of the 25th (about 2200 ft.) reached at 10:30. From there I traveled slowly, reaching the shoulder for the Wethers, which I could not find, & reached the summit (2654 ft.?) about 11:00 in camp. Only a few really steep patches. Taking over time, the ascent could be made in about 1 hour & 30 or 40 minutes from camp, excluding rest stops.

On the way up, Lacrydium first appeared at 8:30 (c. 1500 ft.) & ended at Lion's Lookout (c. 2000 ft.). There, small-stemmed oaks formed a small strip of pure forest in the narrow, very clayey open crest at about 1600 ft. & were not seen elsewhere. A patch of giant Eichhornia fern in a small saddle under Lion's Lookout perhaps indicates Eichhorn's camp. N. of 1215 on Hinaibou. Between my Lookout of the 25th & the summit the forest is low, more or less windclipped scrub 15-20 ft. high, fairly heavily matted. Two slender tree-forms (Byanea) collected there. A pole further-bowed palm (recalling those of the mountains of Mororan & Ferguson) is scattered through the scrub & conspicuous when one looks over the scrub, but was not in collectable condition. On the summit, the scrub apparently was low enough to be called shrubbery, but it had been completely wrecked by Lion's two boys yesterday. A circular, fairly level bit of ground about 30 ft. across in top. From the appearance of the wreckage, the

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summit soil was composed largely of a red-flowered
Metrorhiza & two Lamiales (one with anise-scented bark).

There were also very plentiful down to my lookout (also a
Coleophylla, which was on top, too). The white Rhododendron had
 been common on top (collected some old capsules which I will
 examine for seeds when dry). A red-hairy Transectia on
 the trees. Most abundant Corydalis was a fuzzy green
 hepatic (A 27891) on the tree trunks. Bunches of the stunted trees
 covered with moss-covered rocks. Not much moss on the ground.
 Mountain summit probably under cloud most of the year.

Nothing in traps. Two Spermophytes, gray rather than brown in
 color & with black tails instead of brown, cut from a tree by the
 mammal dogs.

Tuesday Aug 22: Rain began about 12:30 last night & did
 not clear off until about midday. Sunny afternoon.

Spent most of the day preparing yesterday's gathering of
 38 numbers of plants.

Last night, when the lamp was being carried from my
 tent (where we have our room and water) to the preparation
 fly, where we eat, a great catfish moth fluttered to it and
 was stopped to the ground & caught by Liang. An almost
 perfect specimen with wings 11 cm. in length. Photographed it
 today.

Tent jacking for about 3 hours last night. Liang
 shot a Phalanger, a Petaurus & a yellow-caped Strophurus.
 Zinken got probably the same species of Strophurus, but the
 cape was much darker & there was irregular white blotched
 coloration below the cape. Nothing in traps on the two bat nets rigged.

Since Sunday, Liang has had a cold or mild flu.
 Now Ken has it. Grubbe has malaria, brought on by the rain,
 no doubt. Since a bad attack in the mountains of Fergana two
 months ago, he is supposed to have been on a weekly preventive
 dosage of camograin.

Wild pigs go high — is at least 2000 ft. — on the
 mountain. Many rootings in some places. The stiff yellow clay
 would appear most unproductive of food. On all the slopes,
 including the camp at about 1000 ft., there is only a very
 shallow cover of humus over the clay. The trees of the forest
 spread innumerable stout roots only partly covered by duff
 & humus. These roots make worn paths very uncomfortable to
 walk on with boots.

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Wed. Aug. 28: Some heavy rain last night; cracks
cracking until at least midday. Showers at
intervals through the day, mostly heavy.

Retraced down a lateral spur which runs from
camp down to the creek. Fair results. Two spp. of Gastero
(4th. & 5th. for Fidelis) & a purple stemmed Asplenium
collected among the most interesting. The rain forests of
the locality seem to have a fair variety of canopy &
lower trees, but are very poor in undergrowth, lianas &
epiphytes. From the banks of the big creek are poor. A
good case of geographical attenuation? or perhaps the poor
yellow clay may be an important factor? The creek
rocky & half-gassy up to near where ~~Liand~~ Liand had
his night camp. From there a sudden change to flint
ground bottom & sticky (or silt) shingle.

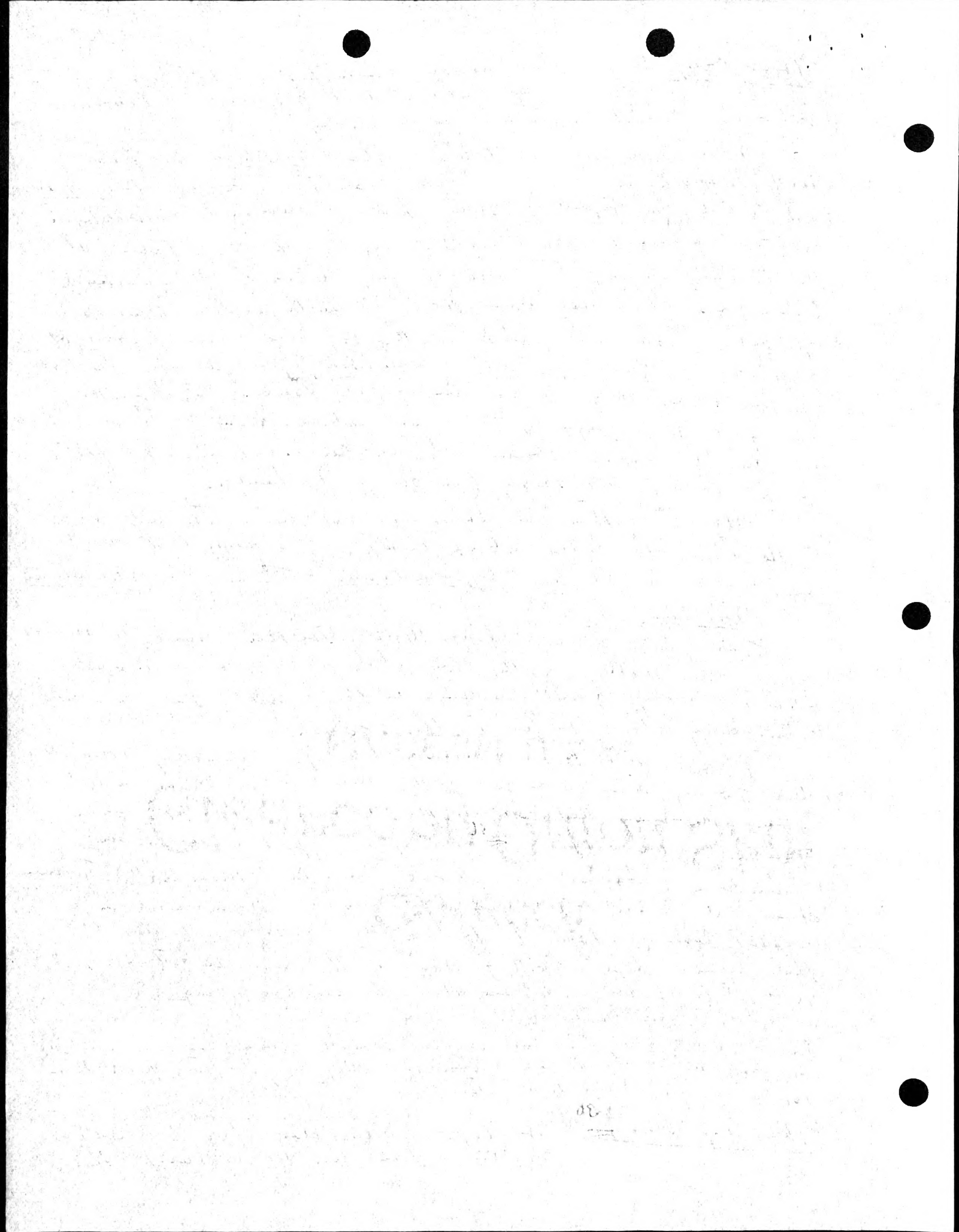
Again nothing in traps or bat nets. The nets moved
to the top of the ridge above camp. Sacking last night;
Rus got two Stenopus bygonianus, Liand a Stenopus
& a Palaemon.

Tonight Liand & his boy Tinku have 10 manes
set in the valley to the south of camp, where Liand
reports many small workings in the forest. Rus did not
bring any steel traps to this camp.

About 1:30 in the afternoon the Fore Handling committee
& two young men arrived with mail & packages, which
Tutor Twomey put ashore this morning. A letter from
Twomey. Only bit of ⁵⁶ packages shipped to us from
Jamaica arrived at Vinca on the "Munira." Twomey
does not want to transport us to Rambo in a
week's time. Plans to be in the Colwada chain at
that time. Liand will go down to the coast on Friday &
go on to Vinca to see what he can arrange.

Snappers have been back in camp the last two mornings
before breakfast. Found several small brown lizards crawling
on me in the forest this morning. My boys often pick them
up & then lose legs after rain.

Thursday Aug. 29: Bright, sparkling day after a rainless
night. Snappers back in camp. This



Returned down the south - trending spur to the east above camp. Most interesting plants a big Macaranga? common in the rather characteristic forest of the ridges, a big Gordonia, & a tree fern (Lyallia) which I think I have collected on the island before.

No mammals in traps, nothing in Linsell's snare (a total of 25 at tonight). Finsel jacked over two hours last night for nothing. He got net, on a new net on the spur above camp, yielded 3 Monoglossus - new for the island.

For breakfast we had rats caught by Linsell's helpers last night after jacking was finished. Flard. fried with them skin on, the rats were rather disappointing. Even Rios, who gets up fresh meat of any kind, had only one piece. Last night, in the same creek as SE of camp, Linsell caught for the collection two sp. of cray fish. One, large & brownish, looks like a species we took in Muisne. The other, small, bluish with red behind the head & bare clings to the rocks in very fast water.

Friday Aug. 31: Another fine day with no rain in the 24 hours. The mountain clear when I saw it from the spur above camp about 7:30. At 11:00 the summit was clouded over.

Collected in the valley of the stream to the SE of camp. (This runs as Rio). Little of special interest. The flora here is poor. However, I have a hand more material than I can dry.

Rios with his two boys left sometime in the morning to spend the night on the mountain. Took Tuboga as a carrier; he returned about 5 o'clock. They are to camp in the saddle at Linsell's Lookout, where I think Eickhorn also camped. I have traps, & got net, & will be jacking. I expect them back tomorrow.

Linsell to go to Larding. He will go on to ^{NIMCA} ~~the~~ tomorrow (walk along the coast, then cross to Muisne by canoe) to arrange for our transportation to RAMBUSE (on Friday 7 Sept. if possible) & to Horn (Friday Sept. 28).

Sat. April 1: It heavy shower at 3:30 AM. Rain through much of the afternoon. Yesterday fell better than usual & at 3 PM the thermometer stood at 81°F in the shade. The lowest temperature noted here is 71°F.

Collected down to Lion's camp, then up the creek (a perhaps 1/2 mile). It fair bog. My terminal point was at a waterfall about 30 ft. high, below which was a small basin more tropical in appearance than is general for the locality. An ample pole-wood layer gave most of the forest a foothills appearance. All hard timbers. I have not met with a second growth tree in the locality.

Ran returned from the mountain with nothing to show for the trip. I had out over 100 traps. Packed for only 20 minutes found most of the ridge too steep. Went to the top of the mountain before starting to rig camp yesterday morning.

No mammals in traps set by the creek, or in Lion's mares, which now number 25.

Galumma, who went to goe Tandeng with Lion yesterday, returned about noon. It came from Lion's intimates a bad mess in the delivery of our "Munira" cargo. Fifteen items are missing, including all Kerom (7 drums) and sugar (2 bags) ordered, 2 boxes of ammunition & some of my collecting supplies. All collecting supplies were consigned in error to Munira, instead of Minca, & I thought that if they had been put off there they would turn up at Ludest within a week or two. Today's news is disturbing. There is no knowing where our missing cargo might be. Run has ammunition & I have collecting supplies that will last perhaps another three weeks. We doubtfully have enough Kerom or sugar to last that long. Kerom is essential for drying botanical specimens.

Sunday April 2: It sharp shower at 6 AM & the weather pattern for the day. Morning about half rainy; afternoon clearer, with a few sprinkles.

Ran a double shift with my one drying oven yesterday, which kept me awake to near midnight. This AM I still had all of yesterday's gathering unpacked, so stayed in camp. Sent the boys out for awhile & they brought in some new things, notably a fine climbing fern Medinilla (photographed), a Berria with leaves much eaten

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by insects (apparently when the leaves are very young & without chlorophyll), a Harianthus with big white flowers & bright blue fruits, & a Peperomia with white flowers. The flowers of this Peperomia are small & the species looks like that of Missina.

Rus is him jacked last night, for nothing. Nothing in 140 traps & 25 snares. One Phaenoglossus netted. Tuboga brought in three Peperomias, cut from a tree.

The one on our last tin of Co. Mr. P. am the only tea-drinker now in camp, & told the cook to make less tea than when Lintel is here. He reduced the amount of water in the pot & put in the same amount of Co, making a brew undrinkably strong. Most of our actions are just gestures to the natives. They see no reason in ~~what~~^{meaning} what we do.

* Monday April 3. Beautiful fine sparkling day with strong SE wind dying down late in afternoon. No rain in the 24 hours.

I had a disappointing morning down the creek which, with its main branches, drains the enclosed valley under Mt. Rie. It east of camp. Lintel reported a big stream "like the LEBADENA on N. Comendby." I found a creek not half as big, deep, & gurgly, with a bottom of slippery rock. I found it sterile for plants. However, on its banks I collected a slender palm, common there. Including a Talassia. This makes 3 palms collected on the island. I have seen few more, all sterile: a big Crania, a Zinnia-like undergrowth species, Caryota, & two spp. of Talassia. Also collected saprophytic Trichophita. First day out in afternoon while I prepared plants in hand. They followed up Lintel's Creek creek beyond the water fall where I stayed a few days ago, & collected several things new, including a big-leaved Harantoua I had not seen before.

Nothing in traps & snares last night; a Talassia & a 3rd Uruba jacked by Rus; one Phaenoglossus netted.

I saw my first snake for this densely forested area, a slender black which Tuboga later collected. This morning he brought in a very large brown, indignant snake, the biggest seen on the trip. Two species of snakes collected here.

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Tuesday
~~Thursday~~ April 4: Clear dawn followed by a day of high overcast driving from the SE. A sprinkle of rain in mid-afternoon, another about 7:30 PM.

My last collecting day in this camp. Climbed the leading stream towards Rio to nearly as far as old TIMI TIMABETA village. Only 9 numbers collected, the most important probably being a small simple Schizaea (new sp. for the locality). Also collected a common Utricularia - a canopy liana with very warty dark stem. Am running a night shift with the plant dryer to cope with a big lot of material at hand.

No mammals got by traps, snags, live nets (2), or Rur jacking last night. This evening Rur is unwell and only LK-LK is jacking.

Ken the cook, about the worst hunter in the world, has done little else for two or three days but hunt pigeons (big ones). Got one bird yesterday and one the day before. Nothing today is we ate bully beef stew for dinner, plus some sort of tree leaf that Ken gathered in the forest.

Wed. April 5: A very strong wind sprang up in the early hours of the morning. Another day of high overcast & no sun. Light rain 3 PM - 4, heavier after that.

Finishing up a plant drying (then will be material still only partly dried to carry to the coast), & packing gear & collections. I have for the camp 708 numbers including 27 mammals & reptiles, 947 sets of bacterium specimens. Not a bad gathering considering the poor flora of these unbroken rain forest. At times of second growth conditions would have meant many more plant species.

The camp has been poor indeed for mammals. About 150 trap out have yielded not a single specimen. I have never before seen trapping gear that had results from jacking have been indifferent. Only 31 specimens of the following mammals have been taken at the camp: Protonotus, Platys, hypomys, Shomopsis, orientalis, phacellomys, Leontideus.

The stock time in mammals, but it is more attention being paid to herps. Totals 192 frogs, 5 snakes, 6 lizards (2 Rinkas). The deep forest environment is not favorable for reptiles.

In insects, only a few specimens of butterflies & a few spp. of Coleoptera were taken. Light trap material fairly rich in beetles, only a few moths. But must be down a fine Elanus moth smacked to the ground at night by LK-LK.

We have, apparently, a great surplus of carriers for the morning. Some are here in camp, others in a shelter down on the creek. Reported to be here are 16 from MADAMBA & 21 from PAMELA on the south coast, and 17 from Joe Landing. It is 5:30 as I write and there is no word from Lionel. When we were visited on August 24 by three men of HUIA village, south coast, Lionel said something to them about getting south coast men for our return carry to Joe Landing. There could have been no definite arrangement because no man of authority was here from HuiA & on August 29, when the Joe Landing councillor came to camp with mails, Lionel spoke to him about carriers for tomorrow. It rained much; 47 men when we need 30 at most. It is still raining steadily & the people will be hard put to find shelter under our two flaps, the creek house, & the small leaf shelter down on the creek. Joe Landing people say that Lionel has not returned from Nimoa.

Thursday Sept. 6: Transport for today looked like a doubtful proposition when heavy rain began at 12:30 last night and continued to 4:30. There were showers after that in the mountains, but not heavy enough for me to use the raincoat I carried all the way to Joe Landing in my hand.

Resolved the surplus carrier difficulty by presenting all spares (27) with a stick of tobacco asxa. Left camp at 7:45 with 26 loads, arrived at Joe Landing at 11:35. I did a little collecting and made some photos on the way. An easy walk. I am on my feet as long every morning.

Found at Joe Landing that Lionel has arranged for Bill Callanan of Madewa Bay to take us to Rambuso tomorrow; price 20 pounds, which is reasonable. Lionel is at Nimoa and will return with Callanan. All stores seemed in order in care of VC Bon in the resthouse. Pinned specimens that Bus left were quite dry and could be packed this afternoon. Plant I left in drying papers were also good and dry.

Feel glad that the Sudest mountain work is over. Mt. Rattlesnake (Riu) always looked so remote from New York.

Thursday Oct. 11: A very wet day. Heavy showers from before day light through afternoon.

Left Abaleli with Hugh Osborne on the "WAEI-WAEI" at 3 PM. and arrived TINTU 5:40, just before dark. Took the inside passage. Calm water except in one place, probably opposite a break in the reef and mostly very shallow. Intricate pilothouse. Touched bottom a few times. Good small wharf of fresh timber at Sinje. Good warehouse among coconuts and mangoes on the beach, oval in shape, with sawn timber floor, and fan-palm roof. Then met at the wharf by Brother Cantwell of the Catholic mission (Father Earle was at Abaleli to meet the "Muniara"), who invited us to dinner. Excellent meal nicely served. Had table napkins for the first time in a European house in the Torres Straits. Father Earle & Bro. Cantwell live in a thatched 3-roomed house with board floor. Three sisters apparently have similar quarters. A convent of permanent construction is now being built. The mission was established, I think, in 1947.

Did some sorting of cargo after dinner. Very heavy rain while we ate. Hugh departed for the next day east along the coast. He would not have had enough water to get away from Sinje at low tide. The "Waei-waei" needs a good time for the trip between Abaleli & Sinje inside the reef.

Friday Oct. 12: A threatening ~~storm~~ dawn. But as carriers were waiting, decided to leave for the mountain. The usual delays while the carriers assembled - some from Sinje, some from East Point, some employees of the mission. Got away with 34 loads at 7:25. Traversed a mangrove through behind the warehouse, then began to climb through a small coconut plantation of the Osbornes (Fraxetia flowering among the palms). Primary (also secondary) forest immediately above the plantation. Soon a new garden of good ripe, being planted mainly to taro, and unfenced. Mostly second growth then to DARISEMI bank at about 600 ft. & overlooking the Carina reef and Heron Island. Fairly steep slopes to that point.

Rested 15 minutes at Lambeni (35 minutes from Sinje). Then began a long, gradual ascent through fine tall forest. At round about 1000 ft. passed 2-3 old village sites with coconut & betelnut palms and ~~run-out~~ run-out bananas. Good

government road showing evidence of long use. Found several small streams, running murky from rain this morning. At 9:15 rode from a point where a saddle ~~is~~ in the central mountain ridge could be seen several hundred feet above us. Some deep rock crevices here from which Lionel collected Hypoxis on his survey trip. Heavy rain kept us there till 9:45.

By 9:45 the rest joined a little, after crossing a fair sized stream, the track divided, the regular route to Ubbala going right, an old, little-used path going to the left. Followed the latter. This soon split again & there was confusion and indecision among our people as to which branch to take. The right hand one was followed and it soon ran out to nothing. Made our way back to the other branch and after a long fairly stiff climb, ~~reached~~ reached the saddle on the mountain at 10:50. Evidence of a frequent cloud blanket some 200-300 ft. from the crest. On top, Lionel had partly opened up a camp site. The ridge was narrow, & rough with rocks, but decided to camp here rather than at another possible ~~site~~ site about 500 ft. lower down, in tall, gloomy forest. Went back to the carriers and Ben, who were waiting at the alternative site, & we had a fly unbecomingly ripped before more heavy rain began to fall.

During the afternoon the clouds lifted for a time and we had views of Tosa (Ubbala) Rd. on a bearing of 112° , & of the summit of Mt. Bonnet rising about half a mile away and 1000-500 ft. above us on a bearing of 25° . The summit a sharp peak of very limited scope - like Mt. Riu or Tadeni. From camp the main ridge curves SW and W, rises only a couple of hundred feet, and appears to broaden. Our best collecting for plants will probably be in that direction.

Our carriers were a pleasant, willing lot. They fell to with knives & axes. They carried to open up views from camp. Few of them had been here before. We gave them a feast of rice after their 6th day off, & they departed about 3 o'clock. Some of them quite tall men for this part of the world. One, a councillor from East Point, & perhaps of chiefly blood, was pale skinned, short, with Wandathat head straight, provided hair, and very prominently protruding bullhorns. A friendly, intelligent man.

Eric Osborne and his family, about 30 years ago, camped where we are now. His clearing is marked by tall tree-form, & an illegible name cut in the bark of a tree. One older

... natives told us that a government man named Janison once camped here, & that a "good" track, now overgrown, leads to the summit.

The mountain villages on our route were abandoned by government (we doubt if ANGAU) orders during the war, we were informed. The people moved down to Singu, but they still use their old garden grounds.

Saturday Oct. 13: Was kept awake much of the night by condensed mist dripping on my tent from a tree overhead. Light showers began toward daylight, lasted to mid-morning. Ridge's pack then clear most of time to mid-afternoon. At other times mist, driving on a strong wind from about east over the saddle.

Collected a few plants about camp while my boys put in a work table and storage shelves. Palm trunks and lying material (*Calamus* & *Agallaria*) available in plenty.

Other boys doing the regular jobs of rigging camp - work and storage facilities, latrines, etc.

Rus unwearyingly tread on a slippery pole in camp yesterday, fell & hurt his back - not very badly. He spent today lying down. Woke out this evening by his boys.

Sunday Oct. 14: Very heavy rain at daylight, followed by a dark, misty, cloudy, showery day. Bad for field work.

Collected a few plants at camp, then followed the track toward Abolali. Track went along the side of the ridge, losing altitude steadily. Forest 100m (ca. 70-80 ft) thick & much undergrowth. Conditions wet; visibility bad. Found and collected with a few ripe red fruits, two species of nutmeg palms with feather leaves. An apocynaceous canopy tree with very fragrant big white flowers was especially good.

The old story of nothing in traps. Lionel and Kim, jacking last night, shot three civets, a brown *Melomys*, and a *Microglossus*, besides picking up an amethystine python 7 ft. long & a big brown tree frog.

Camp rigging, which because of the upland position & rough rocky ground, has been a bigger job than usual.

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was completed today.

About half dozen Jingju men & boys paid us a visit, bringing 10 eggs (bought for 2 sticks tobacco) & 6 papayas. No rain down below, they said. They did ~~not~~ not stay more than an hour in our mist and rain.

Monday Oct. 15 Very heavy rain from about 11 AM to midnight. Completely misty day with occasional light showers. One of the worst spells of weather I have experienced. This is the 5th. day of it. The frost is calculated to dripping. Wind (a cold drift) from NE today.

The weather kept me in camp till mid morning, after which I made for the peak. Followed the narrow ridge crest by a track cut by the mammal boys, then cut by and then to the foot of a rock face ca. 200 ft. high on the north side of the peak. Could go no further on the precipitous slope. The rock face overhung, & being on the lee side, gave dry conditions. A fine white Florea grew high on the rocks & out of rock. One tree near the rock face was one plant-track of the purple tubular Gonolobium of Mr. Robinson, a Normanby (an orchid present on the mountain of all the islands we have visited) & a pale violet Roea. Never have I seen a tropical mountain so poor in orchids (only 3 spp. collected to date) and ferns. The Royal flora as a whole is the poorest yet, but I am collecting plants quite new to me. This is help. Rain spoiled packing last week.

Feb, but I am collecting plants just
 night. Again nothing in traps. Rain spoiled jacking, last
 on forest all mammals but one not have come from the
 guns. Now it develops that we are running short of
 ammunition, batteries & bait. We can make rat bait from
 supplies on hand. Batteries can be bought in Tamarai-
 when we reach there about the end of November - or perhaps
 from a trade store. Ammunition is a different matter. No shot
 smaller than three is available in Tamarai. Will have
 to order from Australia. We come out with an
 ample supply of cartridges. It has been suggested as
 a means of pigeon for the table, without my knowing that a
 shortage was developing. -
 The mammals from Hobei. The

shape was developing. -
 Mail came by native messenger from Aboliti. The
 "Munira" arrived yesterday after being missing for some days
 (with radio out of commission). Tank reported by me, and
 tobacco by Lionel, did not arrive. Lionel left for Aboliti
 after lunch to inquire into matters - also, I suspect, to

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get some good oil. This was forgotten in the packing, as I did not
im not supposed to know anything about it.

Tuesday Oct. 16: No rain last night. Less mist today, few
showers, & some sun in afternoon. Wind from
ca. NW. This afternoon we could hear the breakers on the reef
off East Point, a sound hitherto drowned by wind rustling the
leaves.

Botanized south along the crest of the range, cutting
track for an hour past the end of the jacking trail
without coming to the "No. 1" road to Abolati. There
forest, climbed to a point on some narrow crest, showing
no variation in composition.

No mammals in traps. First spoiled jacking last night
by the boys. A small Hipposideros caught in a bat net.
This is the first insectivorous bat we have caught in a net.

Hugh Osborne came up to see us, traveling from
Abolati in three hours. After lunch he went to the top
of Mt. Roset, guided by some natives who came up
from Sinje with fresh food. Found there a wine
bottle with the rotting remains of a net in it, left on the
summit about 30 years ago by Eric Osborne. Climb
difficult in two places.

Lionel returned, alone, from Abolati about 3:30.
Three natives from Sinje brought a nice lot of
sweet potatoes, papaws, pineapples, & a few limes, tomatoes,
green, & banana for which I paid 12 sticks.

Wed. Oct. 17: The first day & night here without rain. Not
much mist, either, until 1:45 afternoon.

Botanized to and past the waterless gully in the valley
to the west of camp. Nothing worth special remark except
a big Calyptranthes, the third palm found with ripe or
near ripe fruits at this camp & the forest on Roset.
This expedition has been poor for palms. There were
few species on the other islands of the Tuamotus, & up to
this time I have not been able to collect any ripe nuts
for the Fairchild Tropical Garden. This afternoon I have
boys cleaning seeds of two species.

The usual story on traps. Rees & Hugh went jacking
last night for mammals; Kim shot a civet. A
Macroglossus taken in the bat net. Various kinds of

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bait being tried tonight - cheese, cucumber meat, sweet potato.

Ron Gibson arrived at noon from Jinja, having carried timber for the mission in the "Masi-wasi". Hugh left for Jinja about 2 PM, to take the boat back to Abaleli. After lunch, Ron & Lionel went to the top of the mountain. Thunder spoiled the view & no photos were taken.

Thursday Oct. 18: Another 24 hours without rain. Windy & ca. 9 AM, after that clear except for a broken overcast low enough to cut off the top of the mountain at times.

Spent half the morning working on specimens at hand (worked a shift on the dryer last night; things not drying well). Then, with Ron Gibson, my two Solany boys & a Masai Islander of Abaleli, went to the summit of the mountain. Did the climb of 400-500 ft. in 10 minutes. Some very steep places, one, a rock face, being dangerous. I used a rope on this. We were fortunate in having good views from the top, especially of Abaleli anchorage to the Jinja coast, and East Point. Could just catch a glimpse of Tangga Bay on the west end of the island. Left my name in a bottle which Ron & Lionel ~~had~~ placed there yesterday (in a 1 lb. formalin bottle tied to a tree with manila wire). ~~Height~~

1. Mt. Romi, 2750 ft., does not seem as high, when one is on top of it, as Mt. Riri on Tuesday, 2000 feet lower. It is even more limited in area than Riri & its flora is poorer. Top covered with a dense, rather messy scrub 10-15 ft. high in which a Melastomaceae (?) (shrub) & a Timonius were the principal elements.

My idea of bait changing brought no results from traps. But there were good results from two boys sent out last night with a Coleman lamp to hunt for frogs. Lionel, out jacking, shot a curlew. 8 small Hippoboscids shot in camp by Riri.

Ron returned to Abaleli after lunch.

Have decided to close this not very profitable camp on Saturday. Two days ago, when a Jinja courier was in camp with fresh food, I asked for 33 carriers to come up the mountain Saturday morning.

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Friday Oct. 19: All last night the moon shone more brightly, — our first clear night — first glimpse of the stars at this camp. Same sort of overcast day as yesterday. A slight sprinkle in afternoon.

Botanized along the track as far as Tichborne's camp site towards Uluatu. Collected a few good things including a fourth species of palm for the camp, & in Tichborne's old clearing, a small tree Quintinia. Have on hand more material than I can do & tonight will work another night shift with the oven.

Traps yielded a half-grown blackish brown female phalomyia; first mammal trapped here (Kini the cook got it); bird was a bit of sweet potato. Another Hippoboscids in the lot net, also a Macroglossus. A curious thing last night by Lionel.

The Gubernator sent up, for mailing, is a tree in camp, a heavy bit of sheet laid with the history of the camp site stamped on it. The Gubernator was here first in 1808. See attached rubbing.

Saturday Oct. 20: A threatening morning with enough rain to wet the tents and flys before we could get them down at the mountain camp. I left at half past eight, to collect on the way. More than enough carriers were met traveling up the slopes soon after I started down. We had 31 loads. The transport arrived at Jinju before noon.

Nothing in traps last night. Four cuscus shot by Tinker with four shells.

Had very good collecting on the track. My best day on the island. Interesting things included a red-flowered Gesneriaceae vine (like Bignoniaceae) which I found on Fergusson and Normanby, and a fine big Marattia with tripinnate leaves. Saw oaks in the forest at about 200 meters.

Father Twomey of Nimoa, on a visit to Jinju, called at the resthouse to talk with us. Short, stocky man of open countenance, who started the mission at Nimoa in 1947.

Sunday Oct. 21: Heavy rain from the NE last night measured 64 points at the mission. A sultry day, it seemed to me, despite a good NE breeze off the sea.

Spent nearly all day preparing yesterday's plant collection. The rest house is big enough for Rus and I to work in. It already stinks of cuscus.

Rus and Lionel went jacking last night but were driven in early by the rain. One Rattus ruber in traps.

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Monday

Tuesday Oct. 22: Rain again before dawn. At 5:30 a great black cloud lay over the sea to the NE. Light rain through much of the morning. Thunder with this.

Botanized eastwards along the flat sandy island on which Jinju is situated, then across a mangrove flat on a bridge mainly of sawn baulks of timber to garden lands on Wabu Creek (this seems to be the big creek which heads near our mountain camp). From the gardens -bananas, taro, coconuts mainly) I went up the slopes into primary forest. Some fine tall trees, which have been cut into somewhat by the Osbornes and the Mission. Little in flower or fruit in the forest, but I collected a fine big canopy tree which seems to be a Turraea.

In conversation with the owner of the garden, I found that he had worked for Burns Philp at Madang for a year as engine boy. His brother, who lived with him and owned neighboring land planted to coconuts, had worked four years as a houseboy in a Madang hotel. Other boys of the area have worked in Rabaul, Lae and Port Moresby. This man has a good house for which he had paid the builder 26 pounds. Nearby was a small house in which the second of his babies had been born. Such a house is not used after the birth of the child. Was questioned as to what we did with our specimens. I described the Museum as something like a big school to which all people could come to see things from all over the world. In reply to my statement that in some parts we were thought to be practicing black magic, I was told that "some people do not know God."

Nothing in traps but five Macroglossus caught in a net and several bats shot by Lionel and Rus (Pteropus conspicillatus, Dobsonia, Nyctimene).

Tubuga and Sipoma were sent across to Abaleti for some onions from our stock there. Left at 7:15 and returned at six in the evening. A remarkably fast trip. The journey is supposed to take about five hours each way.

Ron Osborne here this evening on a trading trip. He bought a couple of bags of copra and some trochus shell, and sold a considerable quantity of manufactured goods. The excitement of our presence has decreased the regular rather high output of copra by this community. At least we have spent about 20 pounds here.

Started buying artifacts for the Museum. Have three kinds of shell money and a limestone so far. Native food is coming in well. We will try to lay in a stock to take to Woodlark, where population is only a few hundreds and garden produce is likely to be scarce.

Since about the middle of last week there have been big doings at the Mission. Monsigneur Doyle, head of this mission, has been here for confirmations. About 120 people have been put through. (Since the mission started something over 600 have been baptized on the island; about half the population). The monsieur, with Fathers Twomey and Earle, left about 6 this morning for Nimoa in the "St. Patrick." Tues.

Wed. October 23: Rain much of the time from about 8:30 to 10 this am, spoiling my field work. Weather from the NE, over the sea.

Went west through the mission and over the coastal slopes. Very tall, gloomy forest in which there were a few fallen flowers on the ground, and parrots feeding out of sight overhead, but I could collect very little through inability to see.

Another Pteropus and a cuscus shot by Rus and Lionel; three Macroglossus in the net; two R. ruber trapped by a hospital boy at the mission. Nothing in our traps. I find that only the regular museum bait is being used.

1. The first part of the report is a general introduction to the subject of the study.

2. The second part of the report is a detailed description of the methods used in the study.

3. The third part of the report is a discussion of the results of the study.

4. The fourth part of the report is a conclusion and a list of references.

5. The fifth part of the report is a list of appendices.

6. The sixth part of the report is a list of figures and tables.

7. The seventh part of the report is a list of footnotes.

8. The eighth part of the report is a list of references.

9. The ninth part of the report is a list of appendices.

80 121

Had Brother Crantwell to dinner. Plain bushman from Dalby, Queensland. Worked on farms, then for an undertaker. Has two brothers in the Church as lay brethren and another brother about to be ordained as a priest.

Wed. October 24: Very heavy rain from daylight (5 oclock) to after six in the morning; 162 points at the mission. More rain during the morning interrupted my field work. Afternoon fine and hot.

Went up the mountain trail as far as a big new garden at approximately 80 m. Collected 19 numbers in second growths and primary forest (have 48 for three days at the camp). A curious pinnate substage tree with red cauliflorous flowers. Freak condition of thousands of short pendent (c. 1 m) adventitious leafy shoots from a big canopy tree whose branches had been entirely stripped off by falling trees when the garden was cleared. These shoots in flower.

The hospital boy caught two more ruber in his two traps. A Pteropus conspicillatus shot by Ixamat Rus. Bait changed to sweet potato and coconut today.

We have daily contact with the mission. Rus drops in there often. Today Lionel fixed their broken-down lighting plant (small Lister diesel with injector trouble). "The mission small launch "Bambino" was sent around to Abaleti with an injector for cleaning. Brought back for us a tin of flour.

Thursday Oct. 25: A rainless 24 hours. Today mostly with little cloud, and bright and hot. The evenings are warmer here I notice, than at Abaleti. And every morning close to dawn I wake and have to get half out from under my blanket. Sandflies are here, but in numbers too small to be troublesome. A few usually appear, and bite, toward sundown.

Went up Wabu Creek about a mile, to where it narrowed and the hills began to close in. Tall forest broken by a new small garden clearing or two, and second growths (Pistadenia novoguineensis plentiful) where gardens had been. Sage here and there on wet patches of ground. Taro the principal crop planted in the gardens. A fair number of bananas, some cassava, and odd plants of corn, hibiscus, etc. Have not seen any yams in this area. This seems to be a general season for burning off and planting the gardens. Trees usually clear felled. Sometimes the bigger trees are left standing, killed by fire, in the old Rossel fashion.

Again nothing in departmental traps. The hospital boy brought in three more ruber from his two traps. Rus has not as yet inquired as to what the boy uses for bait. Three bats shot last night by Lionel: Pteropus conspicillatus, Nyctinene, and Macroglossus.

Brother Crantwell came after dinner to play native songs for our Gesiagos on the accordion and mouth organ. Only one of the boys came out to listen. Something went wrong. It might be the local feeling of Protestants versus Catholics and suspicion of the brother's motives. Crantwell once got as far as an audition in a national harmonica contest in Australia.

Friday Oct. 26: Weather returned to strong SE. Rain threatened much of day. A thunderstorm in the evening. Day cooler than lately.

Botanized up the mountain road again to about 80-100 m. Got only 11 numbers but there were mainly good trees of the primary forest. An Erythroxylon, the first on the trip, among them.

The usual report on traps, two rats from the hospital traps. Kim, out shooting last night, got a cuscus and five Macroglossus. Previous to this, only one Macro-

glossus was shot - by Lionel. They are difficult on the wing. Kim waited for them to settle in a fruiting tree.

To dinner with Brother Crantwell this evening. We provided the blue pigeons for the meal. The mission has an excellent cook, but our Kim knows more about doing up pigeons. A game of scrabble filled in the evening. The game seems popular in this country.

Sat. Oct. 27: A considerable amount of rain in early morning, before dawn. More or less showery day. Weather from about east.

Botanized, for very little, the hills on the ~~east~~ north side of the valley of Wabu Creek. Have seldom seen so little flowering and fruiting in a forest. This is an off season for plants. The flora is poorer than that of any of the other islands we have worked on.

A mail in this afternoon by the mission boat "Morning Star" brought a new Leica camera from the National Geographic. The focusing gear failed long ago in the camera I brought out with me. Tomorrow will be out last day in Jinju and I will probably spend it largely in trying to get close-up pictures.

The same results, or lack of results, from expedition trap lines. The hospital boy brought in only one ruber this morning (he has been using coconut as bait). Yesterday, however, the Methodist teacher, not to be outdone, asked for two traps to set in his house in the village. This morning he brought in 13 ruber and two his! He did not say how long he sat up to make the catch.

Lionel this morning, with a local guide, investigated a bat cave we have long known about. Really a crack among jumbled rocks, about 20 minutes up Wabu Creek. Crack narrow and hard to get into. Caught 5 small Hipposideros of the species we already have for the island.

Called on Father Earl in the evening (he returned from Mimosa on the Morning Star). One thing discussed was the early history of the Catholic Mission in these parts. Nothing seems to be known about the end of the Marist mission which went to Woodlark about 1840-50. Recently, however, a priest visited the reputed site of the mission and, digging, unearthed a chalice which is now in Sydney. The inference was that the priest who probably buried it must have been in a bad way. There is a legend on Rossel that, long ago, a white man came to the island who made the sign of the cross. He had only a shovel, with which he leveled ground for a house. Finally he was eaten.

Sunday Oct. 28: Some small showers, and much good bright sunshine. Several severe black squalls from the east.

Stayed in camp to attend to collections and correspondence and sent my boys into the field, mainly to collect the gum tree (Vatica) of Rossel. This is the same species that occurs on Sudest. It is very abundant on river flats and the lower ridges at Abaleti, on the south side of the island. Here it is anything but common, and, as everywhere else where I have seen it, the leaves, especially of the older trees, are very badly eaten by insects.

Botanical collections for this camp number only 93, a poor total for seven days of field work. Herbarium sheets number 620. As previously noted, this is an off season for flowering and fruiting, and the flora of the island is poor. It is especially poor in ferns and orchids, groups which generally are well represented

Continuing Education

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in the Papuan region.

Another big batch of rats (seven) from the Methodist teacher. Nothing in other traps. Two cuscus and several bats shot last night by Kim and Tinker. Ras jacked for nothing, in early evening. The boys did not start out until after 8:30.

Following an announcement in church this morning by Father Earle, who has done us more than one good turn, a regular flood of artifacts came in for sale during the day. I bought shell money, pearlshell scrapers and spoons, hair combs, a nosebone, and three types of baskets. Perhaps the Methodists will be in in the morning. There is a strict nonconformist Sunday. Thought today that I would be able to get pictures of village activities, but there weren't any. There was even any cooking of food. The hamlet of Jinju appears to be straight Methodist.

the common section.

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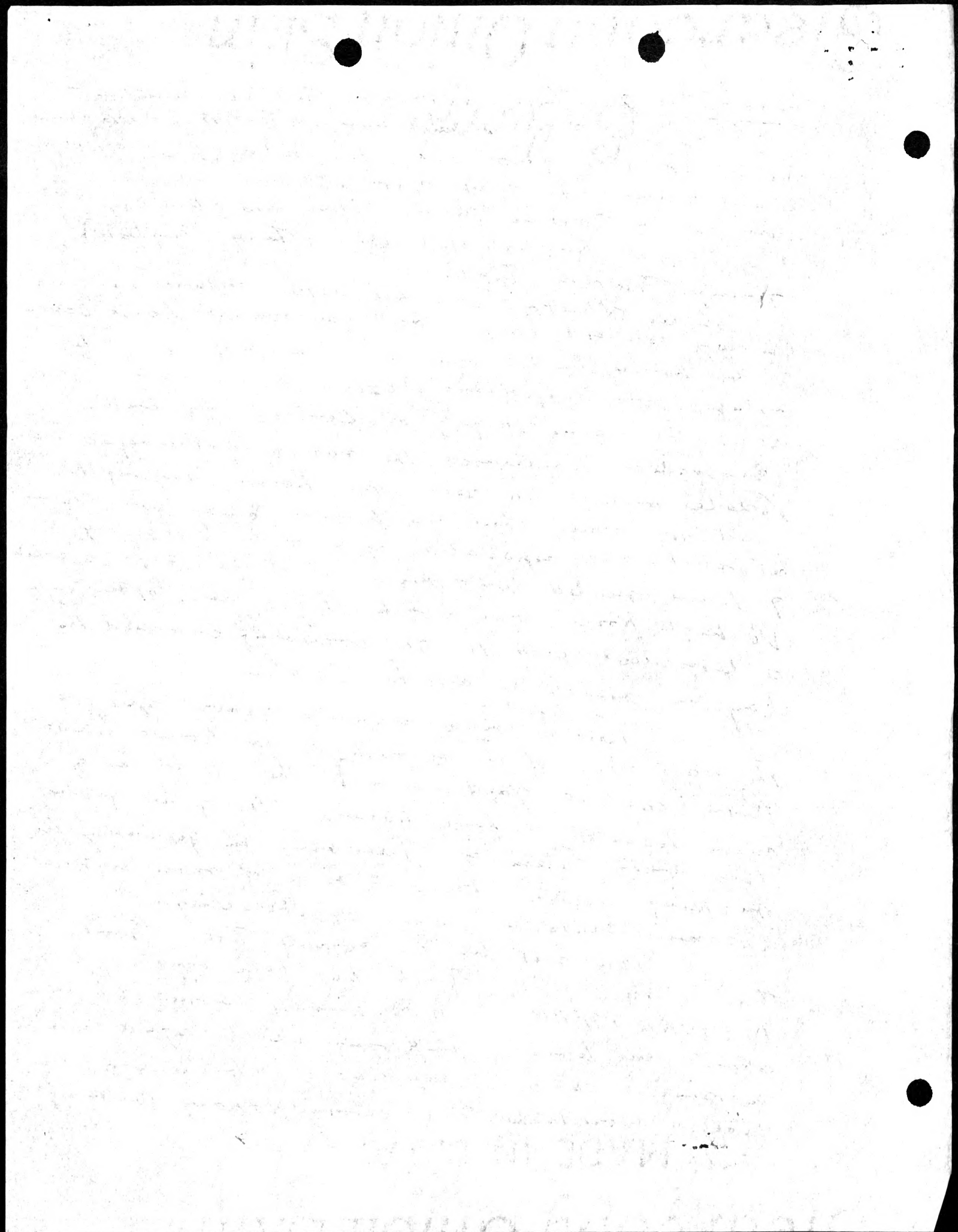
Shakespeare's Skin

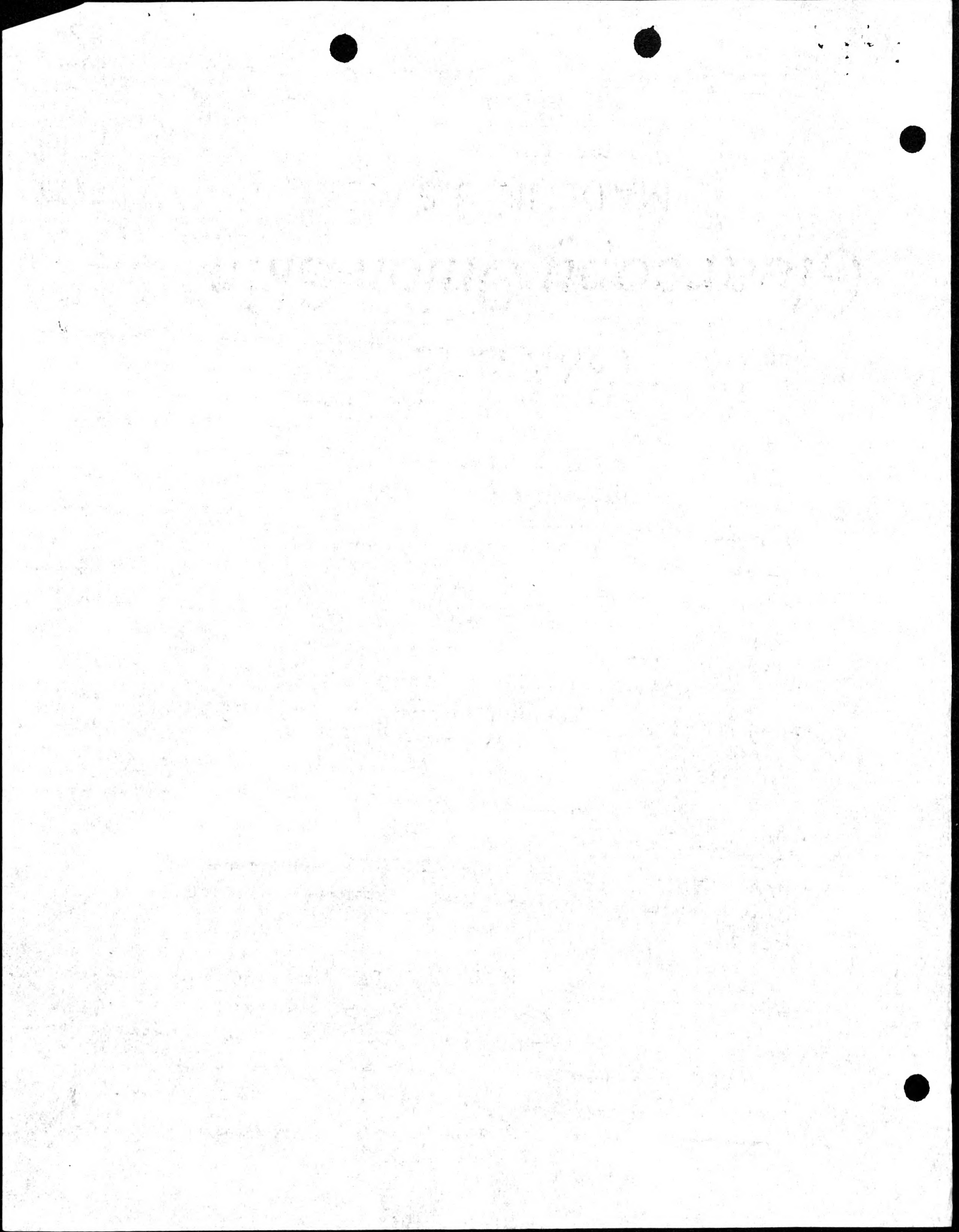
of the skin

Friday Dec. 2: Left Tamarai on "Kedelluma" at 9:30 AM and arrived DAWA DAWA about one o'clock. My first visit to Milne Bay. Had on board going to pick up school children who had come in by Tarsair for the Christmas holidays. Ray Taylor, his half-caste wife (they English), & young Gordon English. After the boy's advance letter notwithstanding, there was no red carpet out for me at Dawa Dawa. The big house turned out to be the property of the village councillor, named ADELEI. Place about 30 x 20 ft. The frame largely of Douglas fir and Australian hardwood, the roof of galvanized iron. Adelei refused to vacate his house, saying he had no other. But the house has two rooms at each end, separated by a wide breezeway. I have rented two-thirds of it for 30/- a week at high price, but worth it to me. My only alternative was to go cruising around the bay in search of another locality.

Situated on a narrow gravel spit on the east side of the mouth of the Dawa Dawa River (ca. 200-yard stream), the village is a mere hamlet of five houses. The gray gravel has been taken to Tamarai in quantity for making concrete. On west side of river is small coconut plantation owned by Rustling.

Was met by a young Tawal Govt. Councillor (MAHURU MARK), who had been sent by M. D. himself turned up in about an hour. Imporing middle-aged man in singlet, shorts & sandals, affecting a thin wadded moustache & a carved ebony walking stick.





It is a beautiful morning. I expected to find at least a good amount of second growth species. Was in primary forest up the stream. Even wet heavily shaded rocks of water falls were practically bare of the ferns which I expected to find. I killed not a single plant in the primary forest. Very steep rocky slopes.

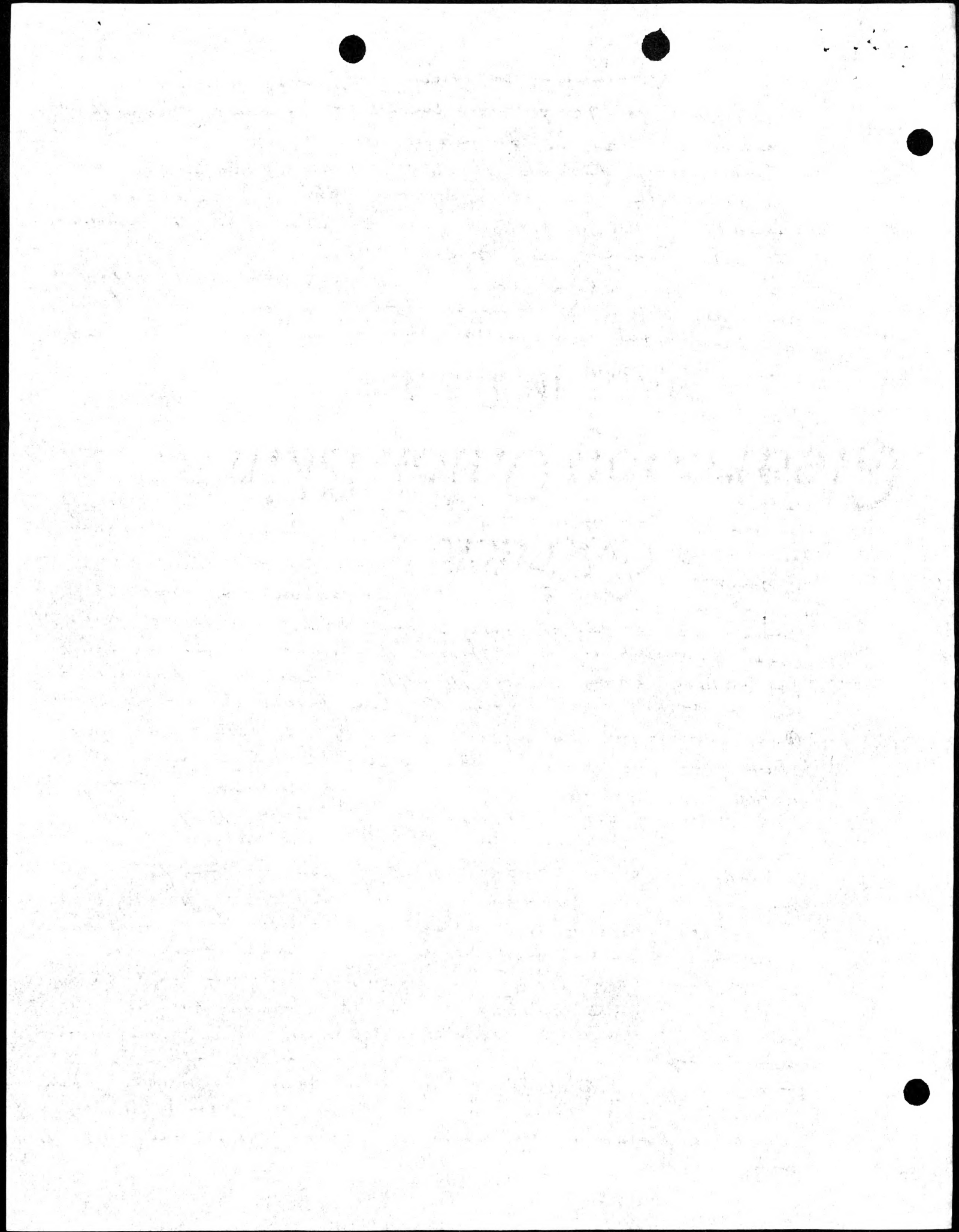
Saw where (one sized logs) had been cut on steep slopes, & brought down to the coast. Some machines now working at this in the area I visited this morning.

Wed. Dec. 5. Toluca river 5 to 5 W. Heavy showers from 3 to 4 p.m.

From 7 to 10 a.m. an excursion up the river by dinghy. Went as far as the dinghy could be taken, a distance of 5-6 miles by the windings of the river, pushing the boat up rapids & rowing on deep rocks. Killed then for a miscellaneous total of nine plant numbers. Reached one point at the fourth bend. Just above my farthest point was a big grassy island with a patch of small trees growing on it. Below the island a big sluggish tributary came in on the left. Saw five hamlets, all on the right bank, & four of them below the fourth bend. One house visible in the forest of the left bank just above my far point. All along the river most of the slopes & all the better flats had been cultivated. Very little primary forest except on the very steep slopes & the west of the higher hills. At my far point I was behind the coastal range, which runs to 3000 feet. The one hill visible upstream was only 1000-1500 ft. high.

The river is better past the fourth bend, a distance of about 2 miles, but the water is quite fresh far below that point. At the mouth it is only half salty.

For some distance above the fourth bend, millions of small speckled fish, about 1 1/2 in. long were swimming upstream. I take it to be the annual migration of whitebait. They were too fast for me where I tried to catch some in a butterfly net. But the boys caught a pound or so in an old basket. They found on the river banks.



Up - view was as poor for insects as for plants.
Saw very few butterflies, only a species of dragonfly
& lots of damselfly. Caught only one dragonfly (a fine
big Gomphid) & one damselfly.

The village is infested by many underdeveloped,
weak indigenous dogs. They snout & snarl at all
hours of day and night. Last night the cook, having
ground my two pairs of boots, left them on the
detached kitchen. It was a thoughtful thing to do.
This morning I was shown the results. Two or each
of the leather soles taken off. Tops of the feet were
gnawing insects chewed away. Even looking the
damage was not worse.

Near my far point up the river today on the right
bank, some Gawa Gawa men were clearing forest
for the planting of 50-100 experimental coffee trees.
Some call ADELEI men there. They call coffee "COF."

Thursday Dec. 6: Weather continues about southwest. Rainless 24 hours but for a
slight shower about 1 pm.

My missing typewriter and some mail were brought from Samarai today by Mahuru
Mark of Swakili.

A letter from Rae, dated yesterday, says they may have been delayed by the non-
appearance of Lamley's boat and will be sailing on the "Chinampa" at twelve tonight.
In four days on the mainland they had the remarkably good haul of 13 species, 39
individuals (Dactylonax, Pseudocheirus, Myotis albiventris, Roussettus, a very
big Pteropus, Uromys, Pogonomys, Scoonycteris, Pipistrellus, Malanconia orientalis,
Melomys, Petaurus, large Dobsonia). Trapping must have been very poor, if traps
were set (only the Melomys is likely to have been trapped).

I have spent the day in camp. Have decided to vacate this camp at the first
opportunity, and today I expected a boat to go by en route to the head of the bay
to pick up Carsair passengers, etc, due early tomorrow. Perhaps the flight has
been delayed a day. This morning I called my boys into council in the hope that
from one of them I could get information on a ~~locality~~ locality with
"good bush" suitable for botanizing. No information was forthcoming. I lean
towards the south (Sudu) coast, not far from Samarai. A large area there, between
Lyte Bay and Samarai (and Milne Bay, for that matter) has not been touched for
plants except for a few numbers collected in the 1870s by the missionary James
Chalmers.

Friday Dec. 7: Sultry day of high thin overcast. No wind at all. Not a glimpse
of the sun.

Was packed up before nine and waited all day for a boat to turn up, going in
the direction of Samarai. None came. Did not hear the sound of the plane at the
head of the Bay, so conclude that it did not arrive from Port Moresby. The tender

Thursday Jan. 3: My last day in Samarai. 1st
developed into a last-hour rush.
Was notified at 11:15 that the "Hera" would leave
at noon, instead of one o'clock. Had therefore to
say hurried good byes.

We left Samarai at 12:05 and arrived at
GABAGABUNA, Milne Bay about 4 o'clock. Good
smooth passage; hot still day.

The battered truck of a missionary named
Brodie was at the wharf and gave us a lift
to the trading post of Hans Jansen, about 2 miles
inland. Jansen's native wife, Agnes, with us
on her way back to Port Moresby, where they have
a home.

Hans a big gray clean-shaven old Dane of
70 years. Married to a native woman (a
kindly little old woman) & has two sons.
Has been in Papua over 40 years & in Milne
Bay over 30. Was 17 years an overseer at
Levin Gilk Gilk Plantation. The last 9 years a
head worker. Refused vaccination in World War
II & ended in charge of the Milne Bay
refugees at MODENA. A good host. Found
old man with an interest in astronomy.

Friday Jan. 4: Samarai has its passengers
entirely at its mercy, & was there
accordingly. ~~Two~~ Today, we went 1014 in
Samarai. There would be two planes. One would
go on to the Trobriands. The second, a special
carrying Dental Ken Baldwin to Milne Bay,
would arrive first, at 8 AM, & take us to Port
Moresby. The first plane came soon after 9:30
& went on to the Trobriands; the second about 1:40,
ten minutes after the other came came back from
the Trobriands & had our baggage on board. We
were transferred to the second plane, left at
1:55 & set down at Jackson's Wharf, Port
Moresby, at 3:50. A good flight at 3000-3500
feet.

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61ed COPY CHINA KIT

The Port Moresby area has had very good early rains & in consequence the savanna hills, which are dry & brown through most of the year, are brightly green. Have never seen this dry area so bright & lush.

Big work is in progress on a third, very long runway, at the airport. It is big & involves a large amount of completion.

Am staying at the Papua Hotel, £2-12-0 a day inclusive tariff for a single room. Have an air booking by Qantas for Tue on Tuesday.

Talked with a Californian oil driller, who arrived today en route for the Moreshead River. He is in the employ of an American contracting company which drills wells for APC (Australian & Australasian Petroleum Company). Says American drillers put down a hole in 6 months that Australians or English would take 18 months to complete. He is on a two-year contract. Has also drilled in Arabia.

Sat Jan 3 Very hot, no rain. Mosquitoes were rather troublesome in the hotel dining room last night. After a report of some fears, the heavy black squalls called GUBIA are said to be a feature of this wet season.

Saturday is a full holiday for Government officers in Port Moresby (and Lae) so could not get any business done today. Bought for £5-2-6 (ca. \$11) a pair of ~~these~~ shoes which would have cost \$20 in New York, or more. Called on W. E. (Arthur) Davis, manager Bank of New South Wales, who took me to the Papuan Club. Saw then Frank & Berrie Ryan of B.P.S., Fris. of Steamship Trading Co., Alan de Green, E. H. James, etc. All spoke of the earlier expeditions, especially of the Tuba & her crew. An A.P.C. man said his company is spending £42 million on oil prospecting this financial year.

Talked with the State Animal Ecologist (first a herpetologist) who has been in the west lately. Says

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he saw the BITOUKI River, a western tributary of
the Fly, where he was pretty sure was red wallabies.
His animals & very red. He says Savauna forest
country. In going back to collect a series of
the Museum a male & female if he can get enough
material. He has the Tairan from as far
east in Papua as Rigo. The Papuan monkey is a
new subspecies with red stripe down the back, recently
described by Hagen.

Thurs. Jan. 6 Breezy day from SW. not so hot.
Heavy thunder clouds inland. No rain here.

Had Dr. Dorothy Atkinson (of Port Moresby) for
lunch at the hotel. He visited the Public Library.
Then sat on the beach with Smith of Cadbury-
Fry & his wife & small son. Smith came from
the Gold Coast some 8 months ago. First
visited NG to look for a suitable area of land on
which to establish a cocoa plantation for his
company. This project was dropped for reasons
I do not know. Smith now going to Rabaul,
where he will be stationed to look after Cadbury-
Fry interests. New Guinea cocoa is of good
quality but has a "sharp" flavor. It is being
used in Australia to blend with other
cocoa. At HERRING Experiment Station visitors
are given a piece of chocolate made from Borneo
& one from New Guinea Borneo and asked which
they prefer. Most people so far have chosen the local
flavor. The principal market in Australia is for
milk chocolate.

Monday Jan. 7 More or less overcast, cooler day with
light rain about 5 PM into evening.

18 big day of official visits. ~~Started~~ Started with
my air bookings with Qantas. They generously removed me
to utilize my unused Samarai - Port Moresby return
ticket from 3rd to 6th Dec to back. Had to pay £15 odd
on the transaction.

18th Honecker (govt. headmaster), first called on
James Dyer in the Lindeman⁹ Mr. H. Dyer, who was out.

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They visited Dorothy Shaw at Dept. of Agriculture and after that Director Gwyer, who was about to leave his office for a Land Board meeting. Found from him, however, that a permit had been issued for the export of our zoological collections. Saw a copy of the telegram (one to me, one to Toketa of Fessenden, Tamarai) & discovered that as a condition of export we were required to give the types to the PNG Administration.

Then to the Dept. of Native Affairs, where I saw Jimi Julius, Govt. Anthropologist, then Director Roberts. The department had cleared our "artifacts" for export. Julius told me over morning tea that during the past year about 16 anthropologists had visited PNG on special projects; his own work is practically confined to trouble areas. Roberts very candid; spoke mainly of the expansion of government posts in the territories. I think there are over 80 now.

Finished the morning with a talk with Claude Thompson, who is now acting head of Field Affairs, who drove me back to the hotel for lunch.

After lunch, posted the postcards for which I have been awaiting an export permit — which is no longer necessary for such things. Picked up my revised air ticket. Then to Evan Thompson's (Commissioner of Titles, or something) office in Town. Then back to Hon. Secy, where I first saw Mr. Khan. Very candid & talkative on forestry matters, especially the reforestation of Shorea unninghamii & M. blanda in the Bulolo timber exploitation area. They know, from early work in Queensland, how to regenerate unninghamii. M. blanda is still a problem. The former is the better timber, the latter, a nice commercial timber, has been most publicized on the market.

After Mr. Khan, visited Gwyer, very talkative. Finally we got around to discussing the export permit his department had issued. The demand for types was a mistake, of course. I do not trust

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Burger, a Hollander, his A 2, who is now away to
Gore.

Had an interview with Administrator L. M.
Holland at 3:30. He seemed in a hurry & did not
have much to say. Then called on Theo Koning, who
is now Acting Asst. Administrator. Ended the day with
a visit to the club with Claude Thompson.

My letter in the hotel today is a Dutchman
named Boer, a building contractor at Hollandia, on his
way back from Australia. Says there are now about
2000 white people at Hollandia. Until recently the only
buildings were U.S. war time barracks & Quonset. Now
some 500 new places are being put up. The Dutch feel
increased in west New Guinea. They don't trust the U.S.
to make an ownership decision favorable to them. Many
Germans have been killed in New Guinea since the
war. The settlement scheme a failure. Too many of
the half-castes "taking to good families" & will not do
hard work. No business being done with Indonesians,
except perhaps in air services, which the Indonesians
pled with the Dutch to carry on. Most building
materials come from Singapore. Cheap labor avail-
able. Local New Guinea supply of timber is inadequate.

From Fran Thompson I learn that the PNG
government still maintains a line of 5 or 6 patrol
posts along the Dutch border.

During the morning I visited the Administration museum
with Julius, Judge Shipyard, & Miss Jones (Comm. Secretary).
A committee was formed & the museum started at last.
Collection of about 2000 artifacts housed in the old
Governor's house & office building. Simple but effective
arrangement. Some very good things, mainly (the most
conspicuous) from the Sepik, Manus, & Rabaul coast.

Tuesday Jan. 8. Left Port Moresby at 7:50 AM by Qantas
DCH "New Guinea Trader" & arrived here
9:10. Small flight but could see little of the country,
& none of the Main Range, for cloud.

Was met by John Womersley, who took me to the

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Robert Cecil (Mrs. Thewlis, an old woman who knew Hedges, etc.). Later in the morning visited the Forest Herbarium, & John showed me through the Botanic Gardens. Did not see much of the Herbarium. There is room enough for the 15,000 sheets (in Merrill boxes), but the walls, ~~and~~ under wide eaves, come only half way from floor to roof, & rain can flow in. The good ventilation probably saves the place. Two women & 2 natives work in the Herbarium. Botanic Gardens are on a forest reserve 66 (64?) acres in area (another, adjoining, 40 acres are available under the town planning scheme). High old river terraces & grounds about 20-30 ft. lower, but well drained, are represented. There is a permanent small stream, a little rapid swamp, & a strip of original tall old rain forest under the break of the forest. The plan is kept revised & some planning has been done. It big that house contains a good new collection of native (& a few hybrid) orchids, begonias, ferns, etc. There are great possibilities in the garden. A new, reinforced concrete herbarium & office building should be put up this year.

In afternoon John drove me some miles along the Bulolo road to see the country. Following us on his own utility was P. W. (Pon) Paine, an entomologist, here for 18 months for the Fijian Government on investigation of the banana scale moth. He found larvae of one of his moths on Heliconia. Returning to Lae, we called in at the cocoa plantation of Healy, formerly of the B. of F. Forest, who has 40 acres under crop, & proposes to plant 120 acres. The cocoa is doing well. It new crop in which chocolate manufacturers in Australia are showing great interest. MacPetersen has a plantation not far from Healy's. Healy is the last of the old pioneer ~~and~~ family of that name in Victoria. The last of the family (a woman) is involved in the cocoa.

In evening, John & Mary Womersley met Paine & I to dinner in a Chinese restaurant (not too good). Paine also showed some good Kodachrome slides he has made in New Guinea.

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Wed. Jan 8: Day spent on a visit to the Highlands with John Womersley on the D.C. 9 which the government chartered to do a round of the outstations every Wednesday. Left Tase at 7:50 & landed at Garoka some 40-50 minutes later. Peter Thobela of Buntlaja met me at the airport. Garoka is the center of an area in which, scattered over many miles & covered by several airlines, coffee is being planted by Europeans. Country is almost entirely deforested except for a few trees along riverbanks & in ravines. Heavy native population living in bee-hive houses. I am sure that the older plantations are just about coming into full bearing & this is a critical time for the young industry (19 visiting expert reported the soil unsuitable).

From Garoka we flew to MIND, passing over the Chimba valley & Govt. Station on the way. Mind is in the great Whagi Valley, at ca. 5500 ft. Natives live in small huts & both men & women wear a sort of sporran of matted string. Some cocoa planting. (Probably more ripe for European settlement in the Whagi than in the Garoka area). Got the loan of a Land Rover from the ADC at Mind & drove across the valley to MANDUKE, a distance of about 15 miles, by fairly good dry-weather road. At Manduke, the Govt. & Sir Edward Holstom have a joint project in sheep raising. Have ca. 1000 head of Romney Marsh breed in charge of Frank Pemble-Smith of the Dept. of Agriculture. Various flukes have been troublesome. Intense rotation of grazing, in small paddocks, is now practiced to control the flukes. The original object was to introduce sheep into this grassy valley as an extension scheme for the natives, but the natives have shown no interest.

A wildlife section of Manduke is in charge of Frank Magn, well known collector of birds & mammals. This is a private project of Holstom. Magn has been in charge for 3 years. Is thoroughly wrapped up in his charges. The property has been well developed with big cages, ponds, & plantings for shelter, shade & ornament. Many spp. of birds of paradise are doing well in captivity. There are Salvadorina ducks, 3 spp. of Dendrocygna, Tama piper, etc.

Geography Chapter 1

The study of the Earth and its features, including the atmosphere, hydrosphere, and lithosphere, is the focus of geography. This chapter introduces the fundamental concepts and terminology used in the study of geography. It explores the relationship between the physical and human environments, and the impact of human activities on the natural world. The chapter also discusses the importance of geography in understanding global issues and the role of the geographer in society.

Geography is the study of the Earth and its features, including the atmosphere, hydrosphere, and lithosphere. It is a discipline that seeks to understand the spatial distribution of natural and human phenomena, and the interactions between them. The study of geography is essential for understanding the world around us, and for addressing the challenges of a rapidly changing planet.

The chapter begins by defining the scope of geography and its relationship to other disciplines. It then explores the fundamental concepts of geography, including the spatial distribution of phenomena, the concept of place, and the relationship between the physical and human environments. The chapter also discusses the importance of geography in understanding global issues and the role of the geographer in society.

Throughout the chapter, the reader is encouraged to think critically about the world around them, and to apply the concepts and terminology of geography to real-world situations. The chapter concludes with a summary of the key points and a discussion of the future of the discipline.

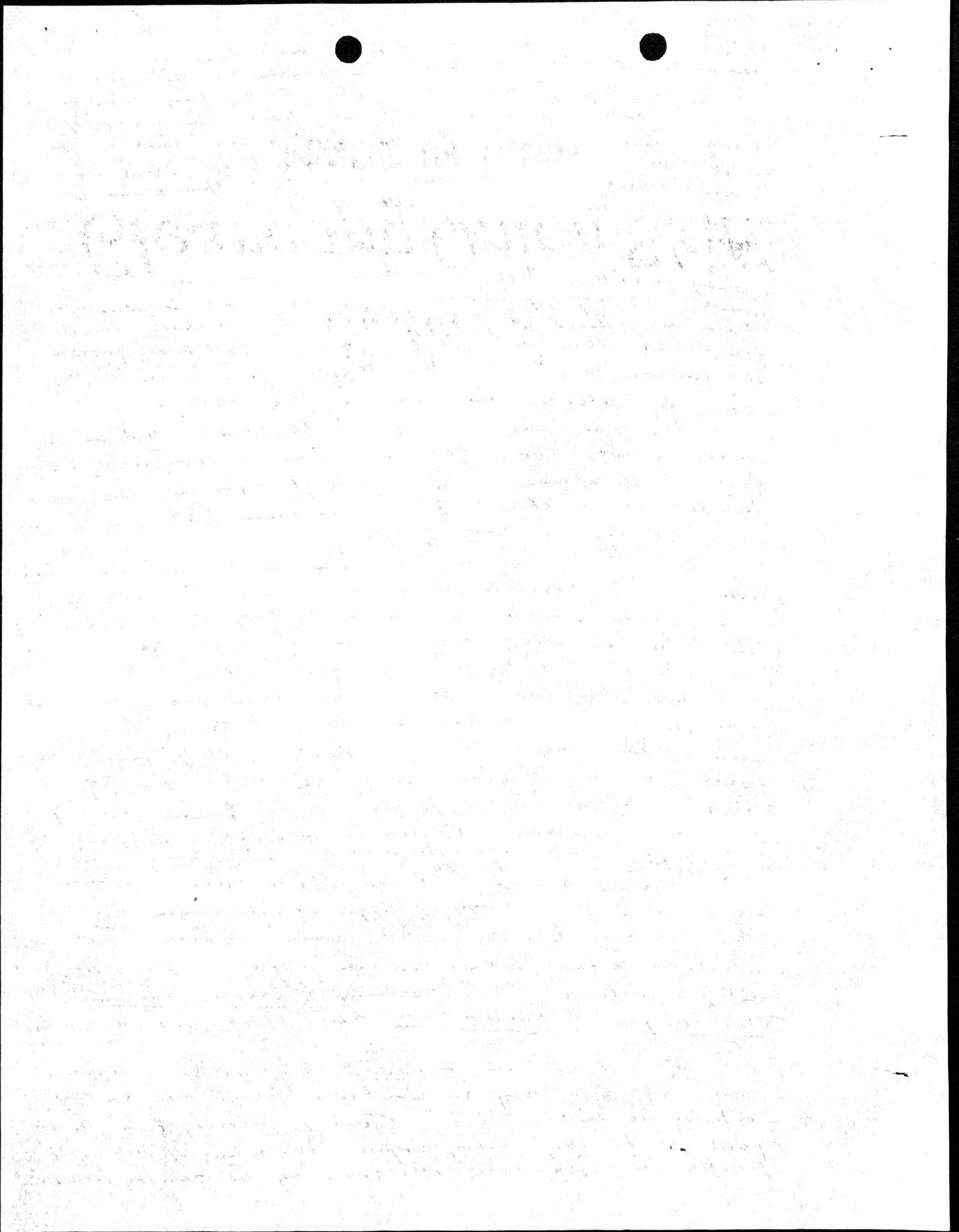
There are some very few limestone country in the Chinba area. The Nagai Valley appears to be in a stage of reconnection, which leaves long narrow flat-topped ridges on which the natives have their gardens & elong houses. At Garoka the few natives seen at the airport were water who were named in some cases flannel things. All things there was a good sprinkling in native ornaments, much decoration about the head, & wearing women necks of beards, & belts being with jangling pieces of beads. They are well built, vigorous people in the Nagai, & very friendly. They have never given any serious trouble. It is big population in the mountain between Chinba. From it have moved there recently, for the forest has been only partly cleared. Tall trees grow in the gardens, as on the upper slopes of the Patim Valley. Saw no planted Sandanians in the valleys.

The sun was hot on the Highlands, but in the shade it was cool. Country has a compact, & very fertile appearance. 18th March extreme maximum temperature is about 35° , minimum 15° .

Thursday Jan. 16: To Bulala with John's car small more - found than an official road. Road with a good native driver. There is a dry spell in the inland wet season (this is the dry season at Bulala) & the road was in good condition. Winding gravel road. We did the 59 miles in 10 minutes under 3 hours, which was considered good going. Road rises to about 3500 ft. when it enters the main (Snake River?) basin. The largely grassy. Much Lakey rain cattle grows pounting & vegetables in the upper part of the valley & apparently is prospering. Lower part of valley very unstable. Much slumping & slipping on the slopes. Very steep slopes; remarkable lands along river.

Stayed at Jim Lodge Hotel. Really a superior motel with 9 2-room cottages, each room with bath, & a big building with dining room, lounge, etc. beautifully furnished in logwood from the local mill & red cedar, etc. Walnut (*Brachylaena*), blue cedar, etc. *Lapwood* on etc. A good trade exhibit in timber.

After lunch we visited the plywood (Treadon, manager). Big, very modern new plant not as yet working to full capacity. Saw the process, from the log yard to peeling, gluing, drying, trimming, patching, & packaging. Was most intrigued by the gantry handling



of the logs, is in the peeling of the bark & the peeling of the wood of the beautifully straight logs. Many operations are controlled by electric eyes & other electronic devices. There is no packaging of plywood for the local market. For the Australian market it is done up, about 10-12 sheets together in paper. For export to San Francisco, it is packed in plywood crates. All Stracoma klinkii being manufactured at present time.

24/1/68 The mill we drove up the slope to the logging area. Stopped at a log load dock & saw no actual banding of logs. The lower slopes of the mountain carry extensive stands of D. klinkii. Unseen in size, but few young trees small enough to be called saplings. The understory of mixed rain forest species. Average height of klintii is about 230 ft., average girth about 10 ft. Govt. collects a royalty of 2/- per 100 super feet (in Queensland it is 25/- per D. Cunninghamii) & undertakes reforestation. Reforestation is on a sustained yield basis on a rotation of 70 years. Fifty years considered enough to produce good mill logs. Practically all planting thus far has been Cunninghamii, which germinates & establishes well. Klinkii gives trouble in establishment, though it germinates fairly well & can be satisfactorily transferred to better.

Visited the Forest Station & talked with Regional Forester David Ben, who did not impress me as being really top caliber. Said he had about 1 1/4 million young trees ready to go out in March. Supposed to plant 1000 acres this operational year. Ben says that klintii occurs on schist & sedimentary rocks, never, so far as he knows, on granite. The soil of the klintii forest is pale grey, deep, & contains much rotten rock. Growth is not good on the sandstones, which are too dry for part of the year. But on schists, which produce a clayey soil.

Top personnel in forest & mill are Australians, trained in Canada. About 500 men employed. Only two choppers, of original eight, now in operation & they will be down in about another year. The timber operations will employ as many men as the gold did.

Friday Jan. 11: Returned to Taz in the morning. John had to meet G.A.R. Stanley, retired geologist of A.P.C., who will represent PRG Scientific

Society at the ANZAS conference to be held soon in New Zealand.

I have a booking to Cairns by Qantas plane leaving at 7 AM tomorrow. Report at noon of a cyclone over the Coral Sea, which has delayed some of today's air traffic.

The Women's gave a cocktail party for Paine Stanley, & myself. Present were Niell (DC), Flaveland (DC), etc. Stanley, Paine & I stayed for dinner & afterwards saw Kodachromes which John made this year on Mt. Wilhelm. I saw a selection from various sources which Stanley will take to Christchurch next week.

John spent 6 days at a lake at c. 11,500 ft. on Mt. Wilhelm. Gilliland established the camp. I built a shed here. Tramped on the highest alpine at over 8000 ft. About a hour's walk to the lake camp.

Bill Brown, who accompanied John, but did not visit the summit, is sure that a Beaver plane could land on the lake with 1500-1600 lb. of loading. Could lift about same weight in take off (about full load). It fair sized lake 500 ft. above the camp lake. It pond at over 13000 ft. & enough woody growth for firewood there.

Stanley an unconventional type, round of figure, with a short clipped gray beard. Raised money for her 1972 conference trip largely by collecting & selling empty bottles. Brought with him from Port Moresby a native boy about 4 years old. Is staying with a Malay named named Torrey, who, with his wife, was invited in by the Women's after cocktails.

Sat. Jan. 12: Left Tas by Qantas at 7:00, flew to 8:45. Dorothy Shaw & Father Brattwell at the airport to meet me. Brattwell a big, youngish man very interested in botany. Showed me a selection of the his water-colors of mostly orchids. Vivid colors & a life-like quality. Has collected about 700 numbers for Kew. Now has to collect & duplicate for Tas, & doesn't like it very much.

Left Moresby 8:45 & arrived Cairns 12:30. Good weather but for low cloud on the Queensland coast & rain in Cairns. The cyclone, which passed out to sea somewhere down the coast, is influencing the weather at Cairns.

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STANFORD UNION SHIRT

After staying at the Hotel Trenton, recommended by Alice Hall. Not as good as Elider Hotel and to be.

To Mearns Liza Spennett. Dinner in evening as guest of Gilbert & Rose Bates. Birthday dinner for Ed & B. Jan. Tuesday of Cairns, who was there with his wife, son Bob & a student friend of Bob. Bob is a medical student.

Bates informs me that the giant toad Rhopho marinus, which has infested coastal north Queensland for years, is now definitely on the decrease in size & numbers.

Tuesday Jan 13. Another very wet day. Floods are widespread in NE Queensland.

George Brooks, who was out insect collecting yesterday, picked me up at the hotel about 10 AM & took me to his hospitable home at Edge Hill. (Gordon & I then two small rooms were there). Spent the morning looking at George's fine collection of beetles. Mostly local species, but a few numbers got by exchange from other parts of Australia & collected abroad. The system are in separate cases. Critical materials have been worked out by specialists. The emphasis in George's collecting has been on groups in which specialists could give him identifications. Has collected several new species, which have been named by other workers. Returned to the hotel at 4 PM.

Wednesday Jan 14. Some showers but weather much improved.

Went first to TAA to arrange an air booking for Brisbane for Wednesday. TAA handle Qantas affairs in Cairns. But it does not belong to the international air organization & my return ticket by Qantas to Brisbane was only good as a credit against the TAA fare of £20. Had to pay an additional £12/12/6. A very curious state of affairs for a big company, owned by the Australian Government, as is Qantas.

Talked on Tom Tipakani, Ebanicumbit, Dept. of Agriculture & Stock. Cordial, but did not seem overjoyed at seeing me. Later got in touch with Tom (T.F.) McE. manager, Tawana & Hansen Electrical Co. With George Smith & Frank Moody, we had some beers before lunch. Went out to Phillip's place in afternoon. To the McE's (Tom & Mary) for a very good dinner. Home-grown Australian coffee used. Home grown paper on the table.

I understand that there has been wrangling & political wire pulling in the formerly good N.G. Naturalists Club, & that the club is no longer very active. Alf Reed is now president. Tomorrow, the club's museum

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has passed into the hands of Bob Hunter, who calls himself "Tropical Tourist". It is part of a display which tourists pay to see.

Hugh Eiden, formerly of Montlock, called on me. He has a carrying business in Taiwan & is much interested in growing orchids. His brother Joe, now a qualified mining engineer, manages a uranium mine in these mountains. Joe has lately got out the worlds biggest specimen of pitchblende, weighing over 2000 lb.

Tuesday Jan. 12 Fairly fine day & rather hot. Temperatures here are not nearly so oppressive as in Samarra. Paul Moroney & I are.

Was interviewed at the hotel by two young men from the Cairns radio station & made a recording on our work in New Guinea, its extension over the years, & its meaning.

Another example of nice equipment going wrong in the tropics is my Nikon Geographic photograph case. I had to leave it open all day by a lock with this morning. Could not unlock it when going through

Customs on Saturday. Bob Alf Read is lunch. He has been president of the club there for the past 8 years. No one else will have the job. I doubt if Alf contributes much brilliance to the club. But still publishes its small journal & has over 100 members, mainly non-resident, who pay only 10/- a year.

Talked on Dr. H. Flecker, radio expert, founder of the Naturalists Club & now 72 years old. He has shipped a lot in the past 8 years. Says the club & its museum are ruined. George Brooks & I are helping being the leading workers.

Tom visited the "Tropical Attractions" show of Bob Hunter in Harbour Road buildings on the water front. One large room contains Hunter's own amateurish collection of insects etc. Another houses the North Queensland Museum collection, mainly ethnological. Fair number of mammals, a few from the AMNH mostly local specimens collected by Gordon Hapkins & badly prepared. Hapkins in charge keeps the rooms & cases clean, but the inside of many of Hunter's poorly labelled cases are in a bad mess with dust. Adminivia charge 2/- for other tourists then during my visit.

Wed. Jan. 16: Left Cairns 5:10 AM on TAA Trans. "William Gump" landed Townsville 9:15, left there 9:55. The very heavy land (the plane was 40) obliged us to make an unscheduled landing at Rockhampton for fuel (11:55 - 12:25). Arrived New Farm Airport, Brisbane, at 2:05 PM. A good smooth flight but visibility poor. Streamer landed from Cairns to near Brisbane.

Playing with sister Edna Henderson at the suburb of Hawthorne.

Thursday Jan. 17: Most of day spent in the city. Have made a reservation for flight to Sydney the night of Jan. 27, and a 10 Jan. trans. on Jan. 30. Applied for income tax clearance.

Visited office of Government Botanist & there talked (partly over a sandwich lunch in the back room) with Evelyn Knight (Jr) and Stanley Blake. An appropriation has been made for building this from a brick & reinforced concrete annex to house the library & type specimens. A fire proof wall will separate this from the old wooden building. The herbarium is being gradually reorganized families & genera in systematic order. Specimens alphabetically except in large genera. Bentham & Hooker system being adhered to. About 25,000 specimens mounted last year. Total number of herbarium sheets nearing 500,000. Library of about 2000 books. Some rare books, including the only copy of Flora Brasiliensis in Australia. Now five young graduates in herbarium & library, in addition to Knight, Blake, & Lindray Smith. An effort being made to fill gaps in periodicals, etc. published during the war.

Friday Jan. 18: Picked up my income tax clearance & had my plane reservations confirmed.

Visited the Queensland Museum & talked with Director George Mack (mostly) & Gene Vernon. Did not see any exhibits. Museum nearly closed showing Wall Disney pictures, which can be loaned on special

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Leaves for free educational purposes. They put on in a pickle vat atmosphere in a banquet room which holds 100 people. 120 men in staff (Black, Wood (young geologist), Vernon & another preparation). Black as self confident as ever, & no broader. Very critical of George Fisher's work on Pleistocene - Australian notes, published ca. 1950. Says that a new subspecies described from Cape York does not even belong in the species to which it was attributed. Black, for comparison, has been borrowing Thomas types from the British Museum.

Learned from Wood that Stan Blake now has a doctorate, granted on his published work.

Trip to Ipswich, Toowoomba & Dalby

18th. Left Brisbane by Greyhound bus 1st in afternoon & arrived Ipswich in about an hour. Stayed overnight with brother Eric in suburb of Moreview.

19th Went on to Toowoomba by Greyhound; about 1 1/2 hours. Visited the Andrews until evening when I left for Dalby by rail motor, arriving at 8:50 PM. Queensland rail motors are noisy, but would not be bad to travel that distance if they did not make so many stops. Dalby is 50 miles from Toowoomba, 150 from Brisbane. Stayed with brother Alan.

20th Drove with Alan & his family to the very fertile Jimtown Plain, then via Macalister across the Condamine River to the property of cousin Percy Littleton. Country in fine shape after a season of ample rains. Large scale farming of wheat, grain sorghum (milo), canary seed, sunflower seed, etc. 14000 dairying & sheep raising, principally for the fat lamb trade. Great prosperity. The man on the land has done well since World War II.

21st. Returned to Toowoomba by rail motor to stay with the Andrews. Town prosperous & growing fast. Population now ca. 15,000. Second largest town in Queensland.

22nd Returned to Brisbane by Greyhound.

THE UNIVERSITY OF CHICAGO

Jan. 23 Traveled to Palmview by train to visit sister Doris. Tedious journey of three hours, my first class carriage in poor state of repair. The main toilet door would not open. The Queensland Railways are in a run-down condition.

In afternoon drove about 20 miles north along the Bruce Highway through mostly cleared rubber farming area by pineapple, bananas (chiefly Toddie fingers), sugarcane, dairying. Went through the towns of Nambour, Gaudine, Eumundi & Tooroy. Highway good for the most part, but in poor repair in some parts, & in some sections too narrow.

Thursday, Jan. 24 Back to Brisbane by car (79 miles by road). Did some shopping in town & in evening had dinner with the Walkers at home.

Fri. Jan. 25 Visited the Queensland Herbarium & talked with Ewart & Brooker. Blake doing lecture for Flora Malesiana; should be finished by June. He & Lindsay Smith are then to work on my 1945 Cape York collection. About October Smith, B.F.L.R.O. chemist Ian Webb, & CSIRO plant collector Jones (mainly drug research) are to examine an area about the head of the Esrap River where, in 1948, I observed from the air what appeared to be a large area of rain forest. Ewart hopes that the Herbarium will agree to publishing a complete enumeration of my Cape York plants. Very desirable from a plant-geographical point of view, as my collection is the only important, properly recorded collection ever made in the area.

Visited W.D. Francis & Mrs. T.D. White at Kangaroo Point. Then said good bye to the Queensland Museum. Mark had just finished a week's lecture course in natural history to an annual class of 30 Teboot Carpenters.

Tried to buy knitted woolen goods for gifts. Got home, but shops are not opened until March.

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Sat. Jan. 26 Visited the E. R. Humphrey, at Tamp. Hill.

Sunday Jan. 27: Left Brisbane Eagle Train Depot at 10 PM. by Qantas & arrived Sydney 12.25 AM. Some rough air, though sky clear. Staying at Manly Hotel (£3-0-0 per day).

Monday Jan. 28: Australian Day & a close holiday. Shops all closed. Could not buy a magazine to read. I did not sleep last night. A couple of unaccustomed glances at bus before lunch gave me diarrhoea. Walked the streets in the morning. It is impressive to see other women wearing long black coats & some light weight muslin. Very few men & women in shorts. Different from Brisbane.

Visited the Australian Museum (Govt. of New South Wales) in afternoon. (10) fashioned glass cases examined with faded & dusty animals, etc. Only a few labelled groups. The birds are mostly small. The mammals & bird collections are being reorganized according to a notice. Some parts closed off. Miscellaneous fairly good. A lot of sheep illustrations, smelling of garlic & liquor & wine.

A telephone summons to appear at Qantas office next door. Found that some smart individual made a mistake when I reported in & finalized my booking for Jan. 30 instead of the morning. I put me down for tomorrow's flight instead of Wednesday. Was called in for confirmation of this booking. The man has been relieved.

Stopped in to the saloon bar of the hotel to see the TV show (introduced in Australia about last November). It shows an imitation of ransom, Hapstick U.S. Showmanship, as they can achieve. I have heard reports that TV is not going well in Australia, rates of 74% far under expectations. No wonder.

Tuesday Jan. 29: Tried again (at David Jones) to get cashmere sweaters. Tickets not yet open.

Then to the Botanic Gardens. Talked with Anderson (director), Mann (R.H.), Miss Findlay (ferns), Johnston. Anderson, a man who "has not aged well" according to Alan Rieki, but does an admirable job of work for them. Mann in early middle age, slender man with small mustache, rather nervous manner but very friendly to talk to; was the Botanic Gardens, Garwin, then an

Onlooker

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1950

an agricultural expert with the U.S. Dept. of Agriculture, in
 Waukegan, growing vegetables at Tanager, etc.
 He showed me 37 plants. The 1st day dinner after morning tea.
 Fudal perhaps in 1st tier, seems competent. Johnston
 a paper type with narrow head, gingery beard and
 hair pulled up. Is perhaps an under-the-door man.
 Tanager. Is doing a revision of *Casuarina*, in
 part for Haeckel's *Monograph*. Has 1st the growth in 10
 two genera, largely on the position of the stomata in the wings,
 as far as I can make out.

Herbarium of ca. 600, 600 sheets is overcrowded; all
 material in white cardboard boxes. Types & a set of
 Banks & Tanager specimens segregated from the rest
 of the collection is kept in the director's room.
 Went to the Australian Museum after lunch to call
 on Wroughton who was away. Then tried to see
 Whitley (fisher), who could not be found. Wroughton at
 the AMNZS conference in New Zealand; Joyce Vickery of
 the Botanic Gardens also at the conference.

Saw the Enslaver for Industry. Exhibition of the
 Australian Atomic Energy Commission in 1948. Some
 service building on Circular Quay. Film & exhibits
 showed use of isotope & equipment. Was fascinated by
 the capabilities of a "master slave manipulator"
 with which a needle could be picked up & loaded
 threaded. Good attendance of all ages, ranging from
 housewives to scientists, according to the receptionist.

Tues Jan 30. Left ~~Quarantine~~ ^{Quarantine} for Tanager
 at 12:20 PM. (Lapsed
 cancellation 6). Only 10 passengers on the big ship. Flight
 at 19,000 ft. Some bumpy air. Arrived Honolulu at
 6:50 (8:50 their time). Distance 1975 miles. Dinner at
 Makamaka Hotel at airport. Hot & muggy. No rain.

Left Waikiki 10:35 PM their time. Arrived Honolulu
 7:45 AM (11:45 their time). Brown international del
 line during night. It is Jan. 30 in Honolulu. Customs
 & Immigration formalities here, very perfunctory. Room
 & lunch at Edgewater - Reef 9661 provided by Quarantine.
 Visited Merrill at the Bishop Museum. Was intro-
 duced to his uncle, Prof. Lindsay, retired astronomer,
 who has been accepted as an associate by the Bishop.
 & is trying to raise money for a planetarium. Left
 Honolulu 5 PM.

Wednesday Jan. 31. A good uneventful flight ended
 at San Francisco at 5:15 PM
 (7:15 their time). Place looks beautiful (there was indeed
 snow a day or two ago). Flap on the left, when we

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landed. Staying the day at Kahi. The weather was
 did not sleep very well. The plane
 but had a fairly good sleep last night & could leave
 for a day. The traveling turned clear. Plenty of
 on the air. The air was very good. The plane was
 the 30. The rows of the plane were very good. The
 not sleep. Plane very.

Friday Feb 1. Left San Francisco by TWA at 7:35
 AM. The flight is followed
 by a jet, was fast with arrival at 3:15 PM (3:15 this
 time). Smooth flight of 23,000 ft. most of the time.
 The wind up for takeoff to leave some more. The
 snow storm. Landed when we landed that in the
 storm a Washington DCB plane had crashed
 on R. R. Island, a few take off, with the loss of one
 or two.

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